686

SCREENING SITE INSPECTION REPORT

PLANTATION PIPELINE COMPANY BREMEN
GAD042825745

John O. Costello J.O.C.
Environmental Protection Division
December 1987

Reviewed by: Randolph A. Wallace Date: 12/30/87
NFRAR

TABLE OF CONTENTS

PLANTATION PIPELINE COMPANY

1.0 EXECUTIVE SUMMARY

Plantation Pipeline Company, Bremen Facility is located east of U.S. Highway 27 of Bremen, Georgia (Figure 1). The site coordinates are latitude 33° 45' 04.0" and longitude 84° 40' 01.9". The subject of this Screening Site Inspection is a part of the facility that formerly contained two unlined Petroleum Tank Cleaning Waste Collection Pits (Figure 2).

what kind of waste

The above mentioned waste was determined to be non-hazardous by Georgia-EPD. However, there was concern that trace amounts of lead and mercury in the waste would affect local ground water quality.

The site is underlain by micaceous schists of undetermined age that form a curvilinear ridge extending northeast/southwest across Plantation Pipeline Company property. If ground water contamination has occurred, local geologic structure and topography would likely impart a strong southeastward control on contaminant plume orientation.

During a recent well survey, 418 homes were identified that utilize ground water from privately owned wells. The local communities of Bremen and Waco provide water via municipal systems. both Haralson and Carroll Counties are extending water lines into rural areas, but many home owners will continue utilizing well water to avoid tap-in costs.

Plantation Pipeline Company's current RCRA status is that of a non-handler of hazardous waste.

2.0 ENVIRONMENTAL SETTING

Plantation Pipeline Company, Bremen facility is located south of Bremen, Georgia, east of U.S. Highway 27 (Figure 1). The site lies in the Cherokee Upland District of the Piedmont Physiographic Province (Reference 1). This subdivision of the Piedmont Province is characterized by a rough, hilly topography with 1300-1500 foot hills separated by youthful to mature streams.

The subject of this investigation occupies a ridge crest at a little over 1500 feet in elevation. The ridge is upheld by mica schist (Ref. 2) that weathers to micaceous soils with thick to thin clay to clay loam subsoils (Ref. 3).

Ground water is drawn from wells that extend through the water table aquifer and tap fractured bedrock (Ref. 4). Most residents of unincorporated Carroll and Haralson Counties utilize privately owned wells (Appendix C, Attachments 1 and 2). However, residents of nearby Bremen area provide drinking water via a municipal system (Appendix C, Attachment 3).

The mean annual precipitation in the site area is 52 inches and mean annual lake evaporation is 42 inches (Reference 5). Therefore, the net precipitation in the area is 10 inches. The one year maximum 24-hour rainfall for the site area is 3.5 inches (Reference 5).

Plantation Pipeline Company has reclaimed the area of the former waste pits. The area is presently filled and grassed to prevent erosion (Appendix C, Attachment 4). Surrounding land is used primarily for pasture and rural residential purposes. Commercial development is taking place along the U.S.

Highway 27 corridor between Bremen and Interstate Highway 20 to the south. Bremen is a small town and Waco, to the west is even smaller. These little communities lie within 3 miles of the site and are mixed commercial and residential urban settings.

There are municipal and county water systems throughout the site area. As mentioned above, most town residents utilize these systems whereas most of the outlying residents rely on water from privately owned wells.

There are no critical environments in the site area.

3.0 TARGET POPULATIONS

During a well survey conducted in the 3-mile radius site area, it was determined that 418 houses use ground water for drinking purposes (Appendix C, Attachment 3). Homes within Bremen and Waco are provided water by municipal systems (Appendix C, Attachment 3). During a November 9, 1987 site inspection, it was determined that geologic and topographic controls on ground water flow would eliminate a threat to most of the targets in the 3-mile radius site area (Appendix C, Attachment 4).

4.0 WASTE TYPES AND QUANTITIES

EPD files on the Plantation Pipeline Company site indicate that petroleum tank cleaning waste was removed to a local licensed landfill (Appendix C, Attachment 5). both of the former waste containment pits are completely covered and grassed (Appendix C, Attachment 6). Without a subsurface investigation, there is no way to determine the environmental quality of local ground water.

5.0 LABORATORY DATA

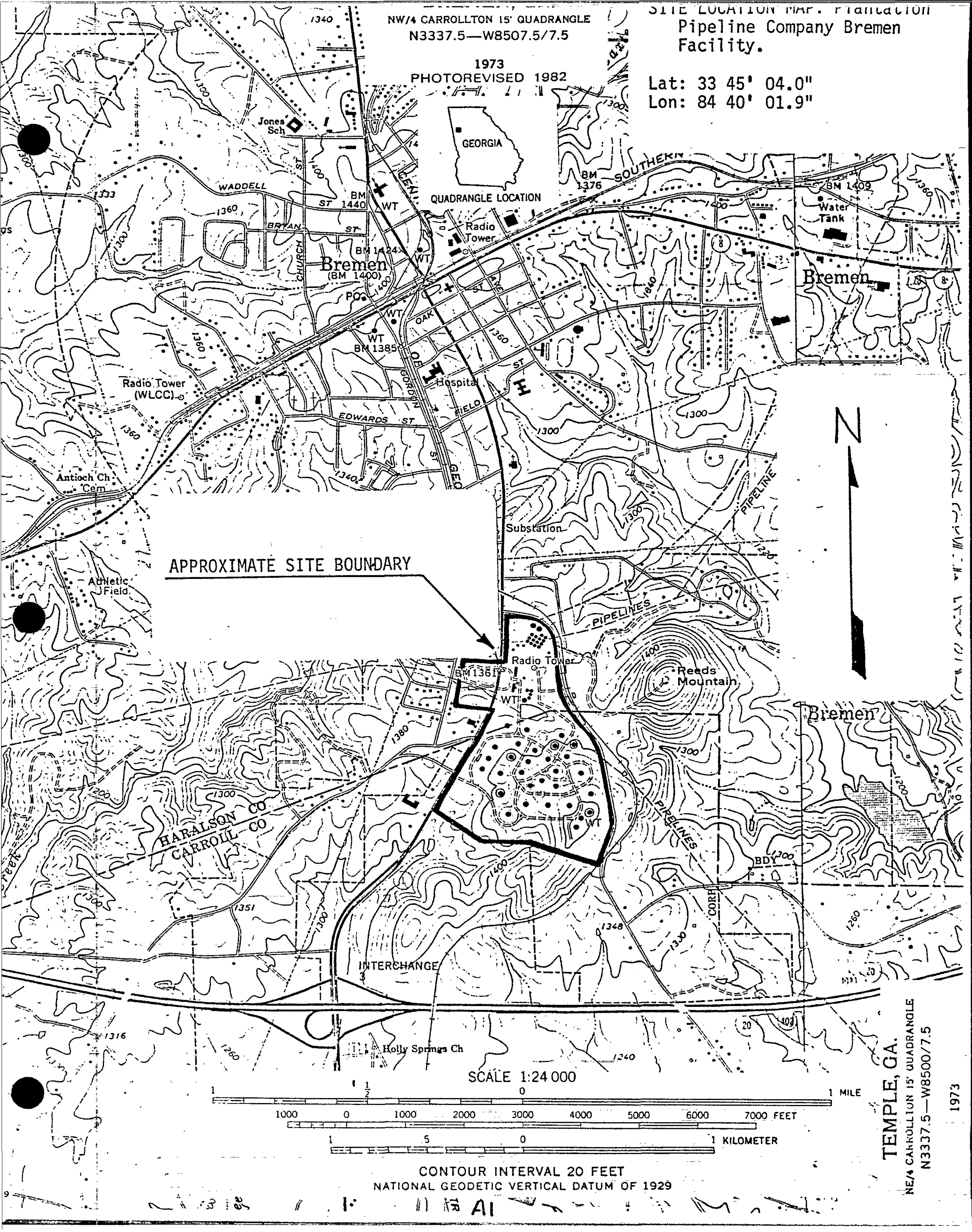
To determine if any threat to surface water quality exists because of the site, a background stream sample and a downstream water sample was gathered gathered from the site area (Appendix C, Attachment 4). Laboratory analysis of these samples were performed by the EPD Laboratories in Atlanta, Georgia. Results are shown in Appendix B. Both samples were analysed for Total Metals and Volatile Organic Compounds. Test results indicate that barium was present in each sample at levels below Interim Primary Drinking Water Standards. All other parameters were reported at levels below instrument detection limits.

6.0 TOXICOLOGY/CHEMICAL CHARACTERISTICS

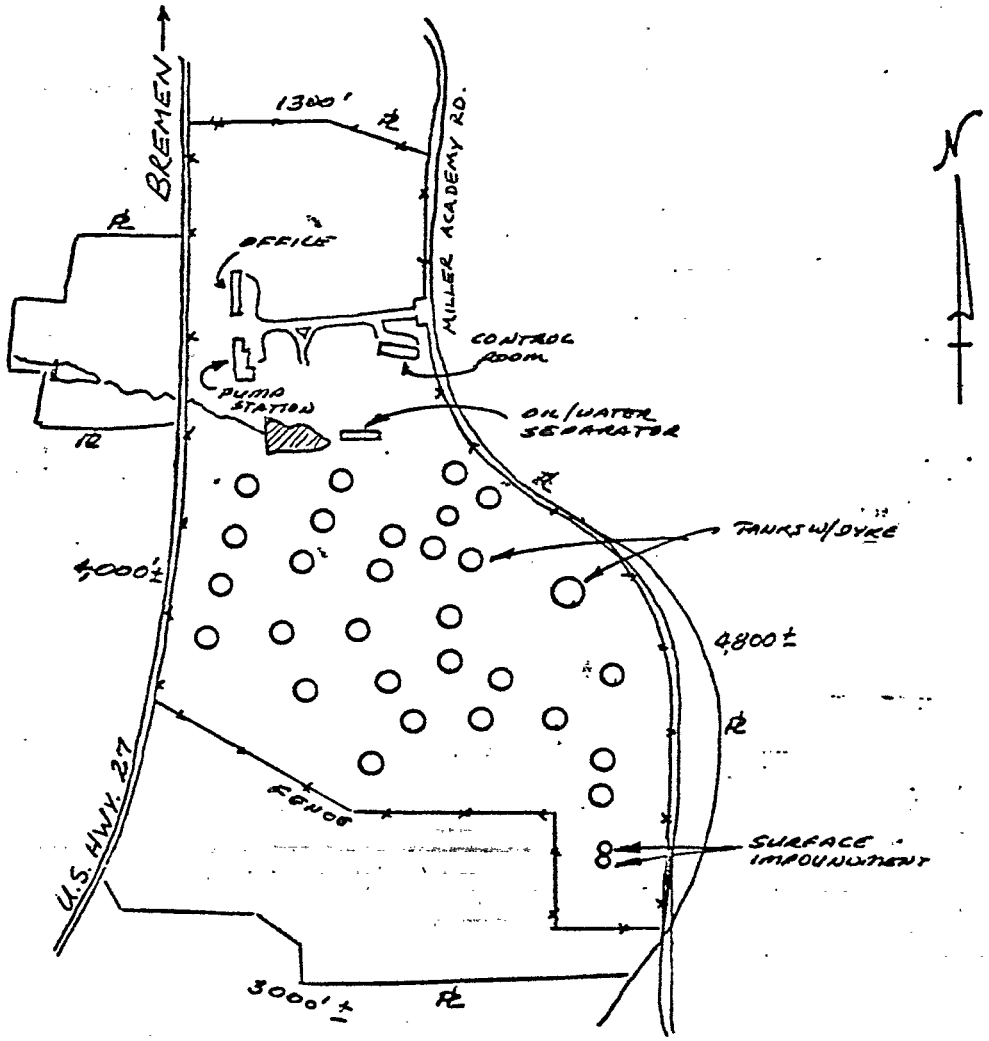
No dangerous levels of hazardous chemicals were detected in either of the two surface water samples gathered in the site area.

SITE LOCATION MAP: Plantation Pipeline Company Bremen Facility.

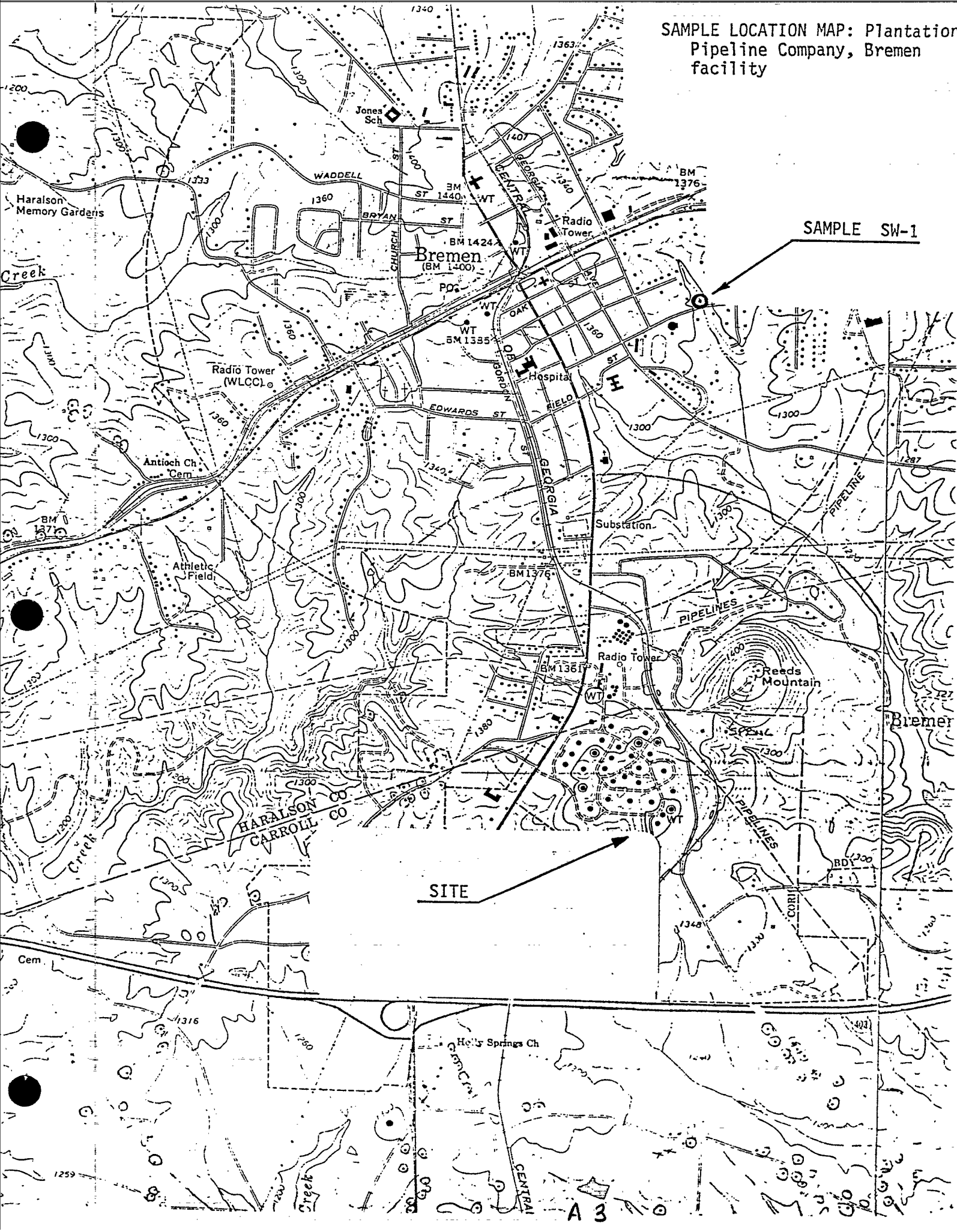
Lat: 33 45' 04.0"
Lon: 84 40' 01.9"

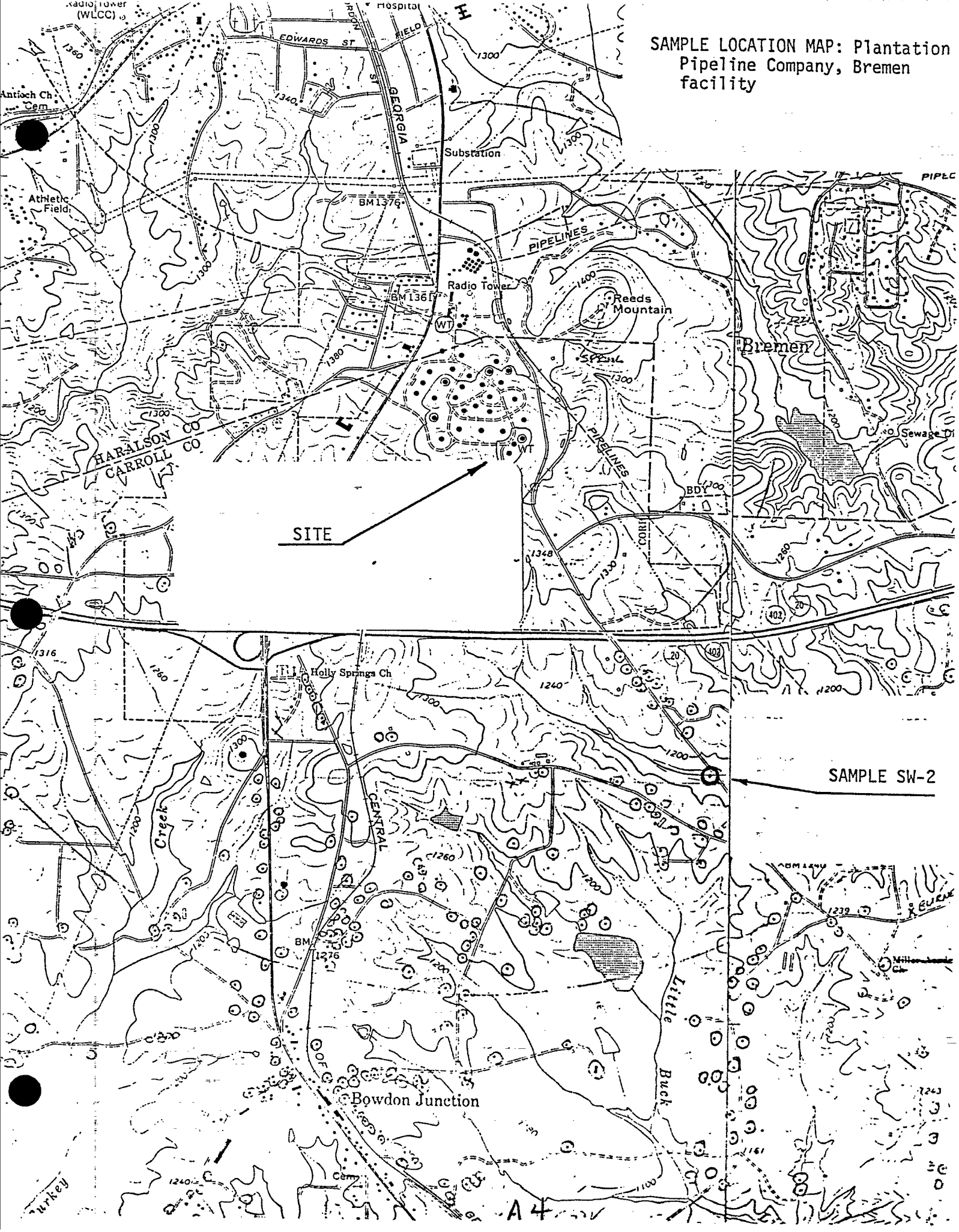


SITE SKETCH: Plantation Pipeline Company Bremen Facility



SCALE 1" = 1,000'±


SAMPLE LOCATION MAP: Plantation Pipeline Company, Bremen facility
SAMPLE SW-1
SITE
Bremen
Haralson Memory Gardens
Radio Tower (WLCC)
Antioch Ch
Cem
Athletic Field
Substation
Hospital
Radio Tower
Reeds Mountain
Holly Springs Ch
HARALSON CO
CARROLL CO
WADDELL ST
BRYAN ST
CHURCH ST
EDWARDS ST
OAK ST
GEORGIA
CENTRAL
PIPELINE
PIPELINES
A 3


SAMPLE LOCATION MAP: Plantation Pipeline Company, Bremen facility
Radio Tower (WLCC)
EDWARDS ST
GEORGIA
Antioch Ch
Cem
Substation
Athletic Field
BM1376
PIPELINES
Radio Tower
BM1361
WT
Reeds Mountain
Bremen
HARALSON CO
CARROLL CO
SITE
BDY
Holly Springs Ch
SAMPLE SW-2
CENTRAL
Creek
Little Buck
Bowdon Junction
Cem
A4

APPENDIX B

HAZARDOUS WASTE ANALYSIS REQUEST

DATE: 10/29/87 PROJECT: PLANTATION PIPE LINE BREMEN, GA COLLECTOR: T. O. COSTELLO

NO. SAMPLES: 3 LOG NOS. _____ LIQUID 2 SOLID _____ SOIL 1

CAUSTIC _____ ACID _____ SOLVENT ✓ UNKNOWN _____ SLUDGE _____

INFORMATION FOUND: TANK BOTTOM SLUDGE (POSSIBLY CONTAINING HEAVY METALS & VOLATILE ORGANIC COMPOUNDS) MIXED IN UN-LINED PITS CREATING POTENTIAL FOR SOIL & GROUND WATER CONTAMINATION.

HAZARDOUS WASTE NOS. _____

HAZARDOUS HANDLING: _____

WORK PRIORITY (CRITICAL NEED) MEDIUM

METALS ANALYSES

	TOT	DIS			
METALS (DW NO Hg)	☑	☐	EP METALS (DW NO Hg) ☐	100X ☐	30X ☐
METALS (DW WITH Hg)	☐	☐	EP METALS (DW WITH Hg)		

	TOT	DIS		TOT	DIS				
NICKEL	☐	☐	CADMIUM	☐	☐	EP NICKEL	☐	EP CADMIUM	☐
ARSENIC	☐	☐	LEAD	☐	☐	EP ARSENIC	☐	EP LEAD	☐
CHROMIUM	☐	☐	MERCURY	☐	☐	EP CHROMIUM	☐	EP MERCURY	☐
CHROM-HEX	☐	☐	SELENIUM	☐	☐	EP CHROM-HEX	☐	EP SELENIUM	☐
_____	☐	☐	_____	☐	☐	_____	☐	_____	☐

SPECIFIC ANALYSES

pH	☐	SULFIDE	☐	% SOLIDS	☐ _____ ☐
FLASH PT	☐	SP.COND.	☐	TOT. PHENOLS	☐ _____ ☐
CYANIDE TOT.	☐	TOC	☐	CHLORIDE	☐ _____ ☐
CYANIDE AM.	☐	TOH	☐	FLUORIDE	☐ _____ ☐

ORGANIC ANALYSES

PESTICIDE SCREEN (EC)	☐	GC-MS ACID EXTRACTABLES	☐
PCB	☐	GC-MS BASE/NEUTRALS	☐
VOLATILE ORGANICS (VOA)	☑		

SPECIFIC ORGANICS: _____

APPROVED: _____ AUTHORIZED: _____

HW/OC9

LABORATORY REPORT

SAMPLE DATE: 11-9-87 PROJECT: PLANTATION PIPELINE CO. BREMEN, GA COLLECTOR: COSTELLO

HW LOG NO. 2909 2910

DATE REC'D 11-10-87 LABEL SW-1 SURFACE WATER SW-2 SURFACE WATER

TIME REC'D 0945

REC'D BY: Reed

DEL BY: Costello

J Harold Langford
LABORATORY MANAGER

DATE: 11-24-87

PARAMETERS		LAB NO.	HW2909	HW2910
Total	Ag	ug/L	<10	<10
"	As	"	<30	<30
"	Ba	"	15	10
"	Cd	"	<10	<10
"	Cr	"	<10	<10
"	Pb	"	<30	<30
"	Se	"	<5	<5
VOA			See Attached Sheets	

REMARKS:

DATE 11-23-87 GEORGIA ENVIRONMENTAL PROTECTION DIVISION SAMPLE REC'D (date & time):
PROJECT: Plantation Pipeline PURGEABLE ORGANIC ANALYSIS-WATER SAMPLE START (date & time):
SOURCE: SW-1 DATA REPORTING SHEET SAMPLE STOP (date & time):
Surface Water
SAMPLE TYPE: Water CHEMIST: MB COMPLETE: 12/
SAMPLE NO.: HW 2909

Compound	Storet#		Units
Methylene Chloride	34423	<5	µg/l
Trichlorofluoromethane	34488	<1	µg/l
1,1-Dichloroethylene	34501		µg/l
1,1-Dichloroethane	34496		µg/l
1,2-Trans-Dichloro-ethylene	34546		µg/l
Chloroform	32106		µg/l
1,2-Dichloroethane	32103		µg/l
1,1,1-Trichloroethane	34506		µg/l
Carbon Tetrachloride	32102		µg/l
Dichlorobromomethane	32101		µg/l
1,2-Dichloropropane	34541		µg/l
Trans-1,3-Dichloro-propene	34699		µg/l
Trichloroethylene	39180		µg/l
Benzene	34030		µg/l
Chlorodibromomethane	34306		µg/l
1,1,2-Trichloroethane	34511		µg/l
Cis-1,3-Dichloropropene	34704		µg/l
2-Chloroethyl Vinyl Ether	34576		
Bromoform	32104		µg/l
1,1,2,2-Tetrachloro-ethane	34516		µg/l
Tetrachloroethylene	34475		µg/l
Toluene	34010		µg/l
Chlorobenzene	34301		µg/l
Ethylbenzene	34371		µg/l

Compound	Storet#		Units
Acetone		<10	µg/l
Methyl Ethyl Ketone		<10	µg/l
Carbon Disulfide		<1	µg/l
			µg/l
Isopropyl Acetate			µg/l
2-Hexanone			µg/l
Methyl Isobutyl Ketone			µg/l
Styrene			µg/l
O-Xylene			µg/l
P-Xylene			µg/l
M-Xylene			µg/l
Ethyl Acetate			µg/l
n-Propyl Acetate			µg/l
Butyl Acetate			µg/l
Acrolein	34210	<50	µg/l
Acrylonitrile	34215	<50	µg/l
Chloromethane	34418	<10	µg/l
Bromomethane	34413		µg/l
Vinyl Chloride	39175		µg/l
Chloroethane	34311		µg/l
			µg/l
			µg/l
			µg/l
			µg/l
			µg/l
			µg/l
			µg/l
			µg/l

U - ANALYZED FOR BUT NOT DETECTED (value reported is detection limit - D.L.)

M - NOT ANALYZED

No other purgeable organic compound detected with an estimated minimum detection limit of

DATE 11-23-87 GEORGIA ENVIRONMENTAL PROTECTION DIVISION SAMPLE REC'D (date & time):
PROJECT: Plantation Pipeline PURGEABLE ORGANIC ANALYSIS-WATER SAMPLE START (date & time):
SOURCE: SW-2 DATA REPORTING SHEET SAMPLE STOP (date & time):
Surface Water SAMPLE TYPE: Water CHEMIST: MB COMPLETE: DO
SAMPLE NO.: HW 2910

Compound	Storet#	Units	Compound	Storet#	Units
Methylene Chloride	34423 <5	µg/l	Acetone	<10	µg/l
Trichlorofluoromethane	34488 <1	µg/l	Methyl Ethyl Ketone	<10	µg/l
1,1-Dichloroethylene	34501	µg/l	Carbon Disulfide	<1	µg/l
1,1-Dichloroethane	34496	µg/l			µg/l
1,2-Trans-Dichloro-ethylene	34546	µg/l	Isopropyl Acetate		µg/l
			2-Hexanone		µg/l
Chloroform	32106	µg/l	Methyl Isobutyl Ketone		µg/l
1,2-Dichloroethane	32103	µg/l	Styrene		µg/l
1,1,1-Trichloroethane	34506	µg/l	O-Xylene		µg/l
Carbon Tetrachloride	32102	µg/l	P-Xylene		µg/l
Dichlorobromomethane	32101	µg/l	M-Xylene		µg/l
1,2-Dichloropropane	34541	µg/l	Ethyl Acetate		µg/l
Trans-1,3-Dichloro-propene	34699	µg/l	n-Propyl Acetate		µg/l
			Butyl Acetate		µg/l
Trichloroethylene	39180	µg/l	Acrolein	34210 <50	µg/l
Benzene	34030	µg/l	Acrylonitrile	34215 <50	µg/l
Chlorodibromomethane	34306	µg/l	Chloromethane	34418 <10	µg/l
1,1,2-Trichloroethane	34511	µg/l	Bromomethane	34413	µg/l
Cis-1,3-Dichloropropene	34704	µg/l	Vinyl Chloride	39175	µg/l
2-Chloroethyl Vinyl Ether	34576		Chloroethane	34311	µg/l
					µg/l
Bromoform	32104	µg/l			µg/l
1,1,2,2-Tetrachloro-ethane	34516	µg/l			µg/l
					µg/l
Tetrachloroethylene	34475	µg/l			µg/l
Toluene	34010	µg/l			µg/l
Chlorobenzene	34301	µg/l			µg/l
Ethylbenzene	34371	µg/l			µg/l

A-4

U - ANALYZED FOR BUT NOT DETECTED (value reported is detection limit - D.L.)

M - NOT ANALYZED

No other purgeable organic compound detected with an estimated minimum detection limit of _____

APPENDIX C

RECORD OF TELEPHONIC CONVERSATION
Site Investigation Program

Routing: _____ Date: 10/19/87

_____ Time: 1:30 a.m. (p.m.)

File: PPL - Reeves

Party Spoken To: Mr Mickey Spivey Title: _____

Agency/Company: Carroll Co. Health Dept

Address: _____ City: Carrollton

Telephone Number: (404) 834 - 2057 State/Zip: GA

Subject: Distribution of County Water in Reeves, GA Area

Summary of Call: I asked Mr. Spivey to estimate the extent of Carroll Co. water lines south of I-20 near Reeves, GA and to estimate a percentage of residents that have not "tapped" into the system. He said that lines extend along US Hwy 27, but as many as 60% of residents do not currently utilize the system where available.

He referred me to Mr Tim Bailey with the Carroll Co. Water Department for further info.

Actions Required: Call Mr. Bailey

Signature: John O. Cantrell

Follow-up Responses/Additional Comments: _____

Signature: _____ Date: _____

SIP-2 9/86

RECORD OF TELEPHONIC CONVERSATION
Site Investigation Program

Routing: _____ Date: 10/19/87

_____ Time: 2:30 a.m. (p.m.)

File: PPL - BREMEN

Party Spoken To: MR. TIM BAILEY Title: _____

Agency/Company: CARROLL COUNTY WATER DEPARTMENT

Address: _____ City: CARROLLTON

Telephone Number: (404) 834 - 6667 State/Zip: GA

Subject: DISTRIBUTION OF COUNTY WATER SYSTEM IN BREMEN, GEORGIA AREA

Summary of Call: I ASKED MR. BAILEY ABOUT THE EXTENT AND DEMAND FOR USE OF THE CARROLL CO. WATER SYSTEM SOUTH OF I-20 NEAR BREMEN. HE SAID THAT THE SYSTEM IS BEING INSTALLED FOR FIRE PROTECTION AND DRINKING WATER. HOWEVER, MOST HOMES (50-60%) USE WELL WATER AND ARE NOT SWITCHING OVER TO CO. WATER UNTIL EXPENSIVE REPAIRS TO WELL &/OR PUMP BECOME NECESSARY. WITHIN 3 YEARS, MOST HOMES IN THE AREA WILL HAVE THE OPTION

~~Actions Required~~: CURRENTLY, ONLY COMMERCIAL ESTABLISHMENTS & SOME HOMES ALONG U.S. HWY 27 ARE HOOKED UP.

Signature: John O. Cotillo

Follow-up Responses/Additional Comments: _____

_____

_____

_____

Signature: _____ Date: _____

SIP-2 9/86

Georgia Department of Natural Resources
205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334
J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division

TRIP REPORT

December 10, 1987

SITE NAME AND LOCATION:	Plantation Pipeline Company Bremen, Georgia
EPA ID NUMBER:	GAD042825745
COUNTY:	Haralson and Carroll
TRIP BY:	John O. Costello J.O.C. Environmental Specialist Site Assessment Unit
ACCOMPANIED BY:	N/A
DATE AND TIME OF INVESTIGATION:	October 16, 1987 8:00 - 4:30 November 6, 1987 8:00 - 4:30
OFFICIALS CONTACTED:	Mr. Donny Harper Water Department, City of Bremen Bremen, Georgia 30110
REFERENCE:	Directive from SIP Management to assess site.

COMMENTS:

I drove to the City of Bremen, Georgia on October 16, 1987 to initiate a survey of privately-owned drinking water wells lying within a 3-mile radius of Plantation Pipeline Company's Bremen facility. I met Mr. Donny Harper of the Bremen Water Department at City Hall. Mr. Harper examined my topographic maps of the study area and marked the extent of municipal water lines in and near Bremen. He mentioned that in some cases, even though water lines were run, a few residents had not tapped into the system. He also mentioned that the City of Waco southwest of Bremen provided municipal water for some of the residents. He suggested that I contact Haralson and Carrol County health officials for additional information.

After leaving City Hall, I began a systematic driving tour of all roads lying within the 3-mile radius of Plantation Pipeline Company.

I noted that most of the wells were either drilled or bored. A Mr. Winkles who lives at the Bremen VFW Lodge on US Hwy. 78 East of town described 2 drilled wells that service both the VFW Post and one of his rental properties. They extend 300 and 400 feet respectively and are both completed into bedrock. Approximately one half of the area had been surveyed by day's end on October 16. Therefore, I returned to the Bremen area on the morning of November 6, 1987 to complete the survey.

CONCLUSIONS:

A total of 418 dwellings that utilize privately-owned wells as a drinking water source were located within a 3-mile radius of Plantation Pipeline Company. Most of the wells. (418 x 3.8 = 1588.4 targets)

RECOMMENDATIONS AND FOLLOW-UP REQUIRED: Gather 2 surface water samples.

PHOTOGRAPHS: None

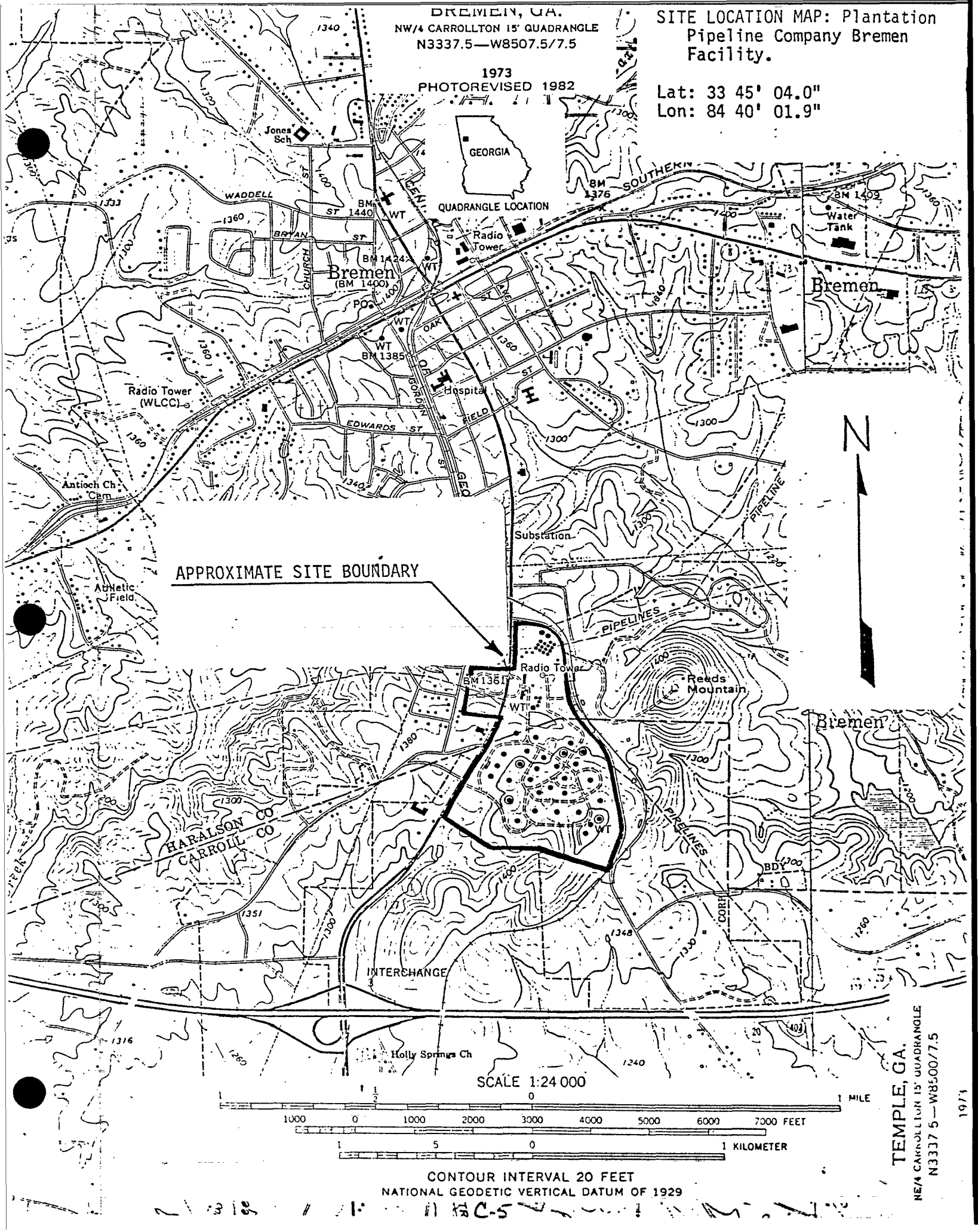
NUMBER OF WASTE/ENVIRONMENTAL SAMPLES TAKEN: None

REVIEWED BY: **DATE:**

ATTACHMENTS: Site Location Map
Site Sketch

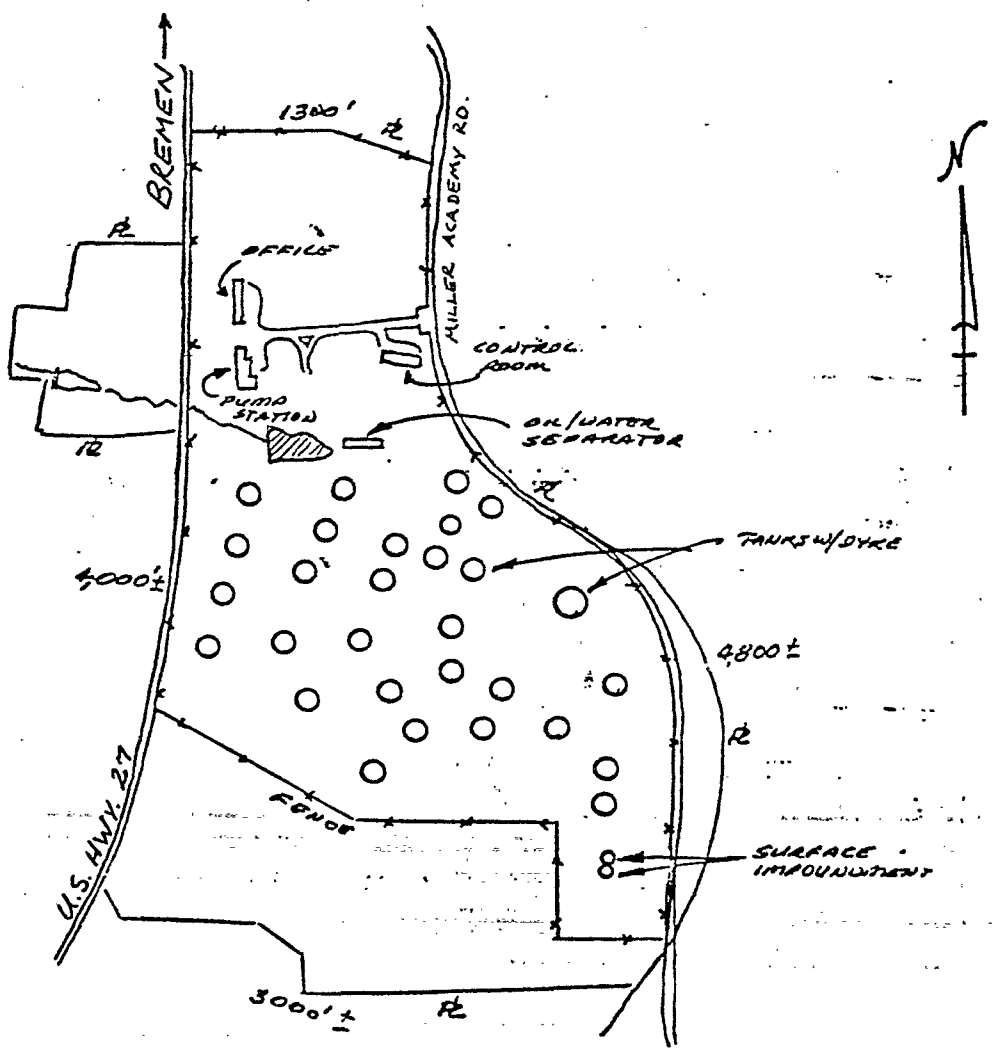
JOC:zr015

File - Plantation Pipeline Company


BREMEN, GA.
NW/4 CARROLLTON 15' QUADRANGLE
N3337.5—W8507.5/7.5
1973
PHOTOREVISED 1982
GEORGIA
QUADRANGLE LOCATION
SITE LOCATION MAP: Plantation Pipeline Company Bremen Facility.
Lat: 33 45' 04.0"
Lon: 84 40' 01.9"
Jones Sch
WADDELL
BRYAN ST
CHURCH ST
BM 1440
BM 1424
Bremen
(BM 1400)
PO
OAK ST
BM 1385
Radio Tower (WLCC)
Antioch Ch
Cem
Athletic Field
EDWARDS ST
BORDEN ST
GEO
Hospital
FIELD
Radio Tower
BM 1376
SOUTHERN
BM 1409
Water Tank
Bremen
N
PIPELINE
Substation
APPROXIMATE SITE BOUNDARY
PIPELINES
Radio Tower
BM 1361
Reeds Mountain
Bremen
HARALSON CO
CARROLL CO
PIPELINES
BDY
CORN
INTERCHANGE
Holly Springs Ch
SCALE 1:24 000
1 MILE
7000 FEET
1 KILOMETER
CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
TEMPLE, GA.
NE/4 CARROLLTON 15' QUADRANGLE
N3337.5—W8500/7.5
1973

C-5

SITE SKETCH: Plantation Pipeline Company Bremen Facility



Georgia Department of Natural Resources
205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334
J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division

TRIP REPORT

November 16, 1987

SITE NAME AND LOCATION:	Plantation Pipeline Company Bremen, Georgia
EPA ID NUMBER:	GAD042825745
COUNTY:	Haralson and Carroll
TRIP BY:	John O. Costello J.O.C. Environmental Specialist Site Assessment Unit
ACCOMPANIED BY:	Brenda Kay Environmental Specialist Site Assessment Unit
DATE AND TIME OF INVESTIGATION:	November 9, 1987 10:00 a.m. - 12:30 p.m.
OFFICIALS CONTACTED:	Mr. Dan Edison Plantation Pipeline Co. Bremen, GA 30110
REFERENCE:	Directive from SIP management to asses site

COMMENTS:

Brenda Kay and I arrived in Bremen at 10:00 a.m. on November 9, 1987. We agreed that an unnamed tributary of Buck Creek North 02° East of the site would be a good location to gather background surface water sample SW-1. Sample SW-1 (1-metals bottle and 2-40 ml VOC vials) was gathered at 10:30 a.m. and placed on ice.

At 11:00 we met Mr. Dan Edison at the Plantation Pipeline Tank Farm. He showed us the area where 2 unlined sludge-gathering pits were formerly located. Both pits were earth covered and vegetated as described during a telephone conversation with Mr. Georgie Jeffaries of Plantation Pipeline on November 3, 1987. After a short vehicle tour we left the facility.

Noting the northeast strike and southeast dip of rocks near the former disposal areas on the southeast side of a topographic highpoint, Brenda Kay and I determined that local geology and geomorphology would impose a strong southeast component to any potential contaminant plume migration. Therefore, we selected the closest flowing stream southeast of the site to gather sample SW-2. Sample SW-2 was gathered along another unnamed tributary of Buck Creek South 10° East of the site at 12:00 noon and immediately placed on ice.

CONCLUSIONS:

Given the existing geologic setting it seems doubtful that potential contamination from the 2 former sludge pits would affect surface water or ground water quality in any direction, but southeast of the site. Furthermore, I believe the position of the former pits near a hilltop reduces the likelihood of contaminant plume migration control by a high water table.

RECOMMENDATIONS AND FOLLOW-UP REQUIRED:

Await laboratory results.

PHOTOGRAPHS: 0

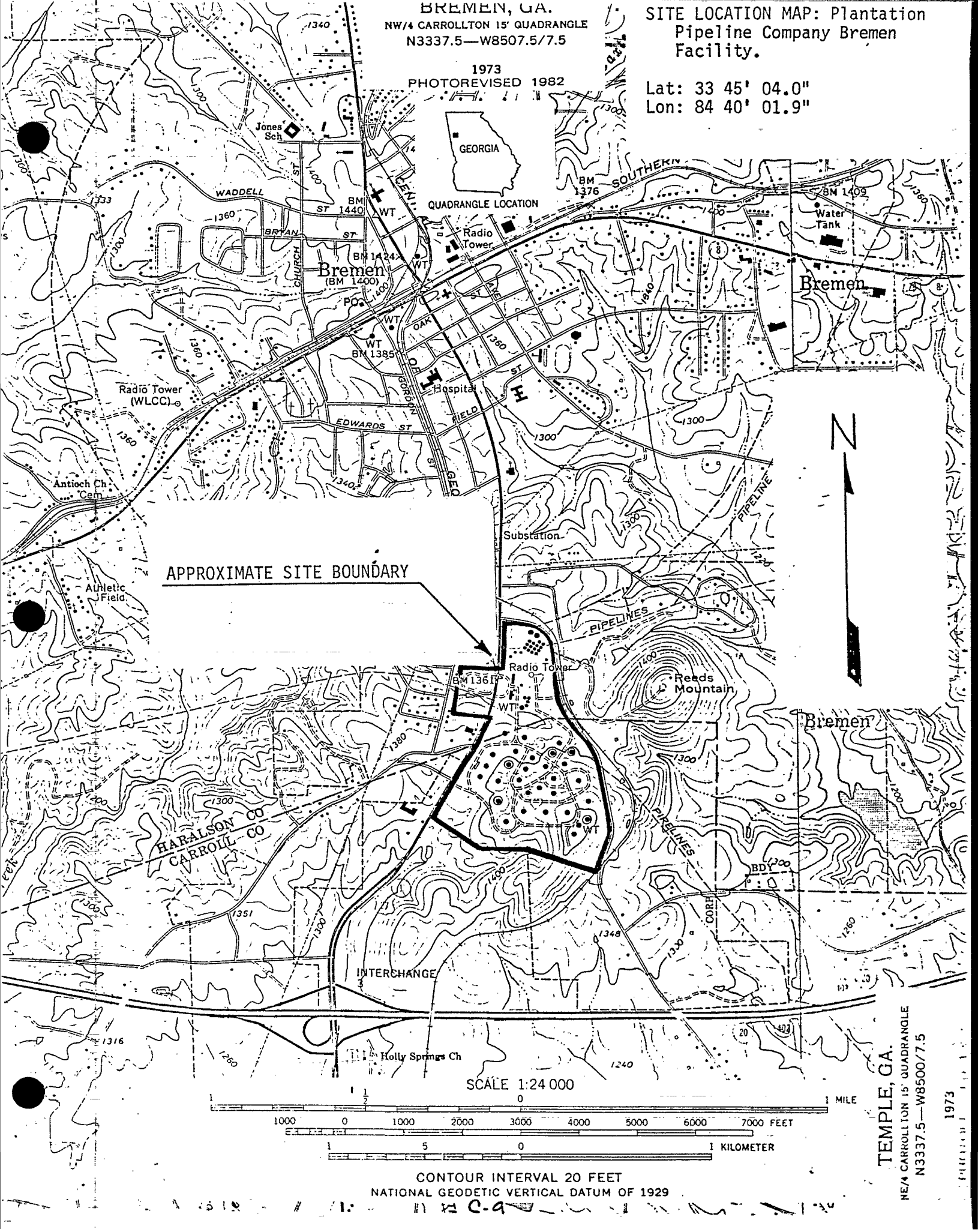
NUMBER OF WASTE/ENVIRONMENTAL SAMPLES TAKEN: 2 surface water

REVIEWED BY: **DATE:**

ATTACHMENTS:
Site Location Map
Site Sketch
Sample Location Maps

JOC:zr007

File: Plantation Pipeline Company
GAD04282525745


BREMEN, GA.
NW/4 CARROLLTON 15' QUADRANGLE
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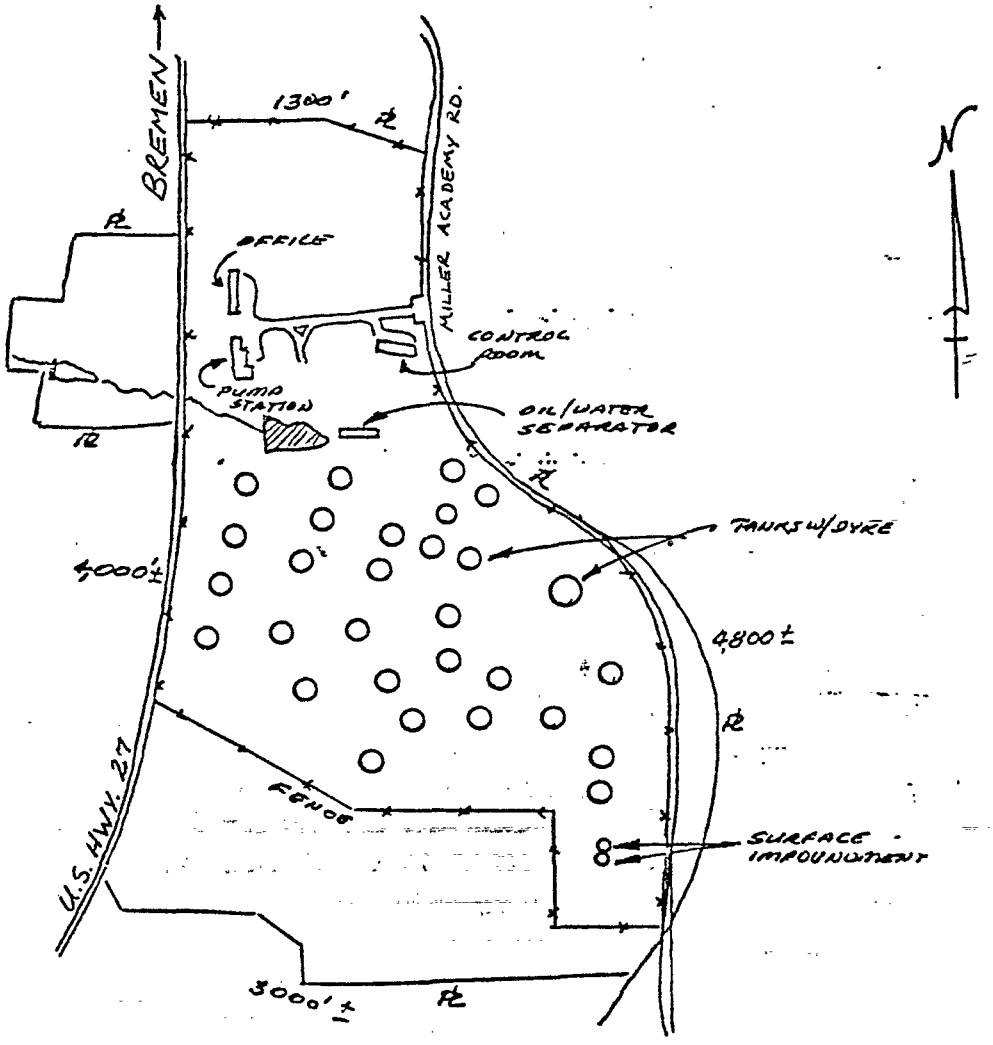
1973
PHOTOREVISED 1982
SITE LOCATION MAP: Plantation Pipeline Company Bremen Facility.
Lat: 33 45' 04.0"
Lon: 84 40' 01.9"
GEORGIA
QUADRANGLE LOCATION
APPROXIMATE SITE BOUNDARY
Bremen
Radio Tower
Water Tank
Hospital
Substation
Radio Tower (WLCC)
Antioch Ch
Cem
Athletic Field
Reeds Mountain
PIPELINES
HARALSON CO
CARROLL CO
INTERCHANGE
Holly Springs Ch
WADDELL ST
BRYAN ST
OAK ST
EDWARDS ST
GORDON FIELD
CHURCH ST
SOUTHERN
N
SCALE 1:24 000
1 MILE
7000 FEET
1 KILOMETER
CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
TEMPLE, GA.
NE/4 CARROLLTON 15' QUADRANGLE
N3337.5—W8500/7.5
1973

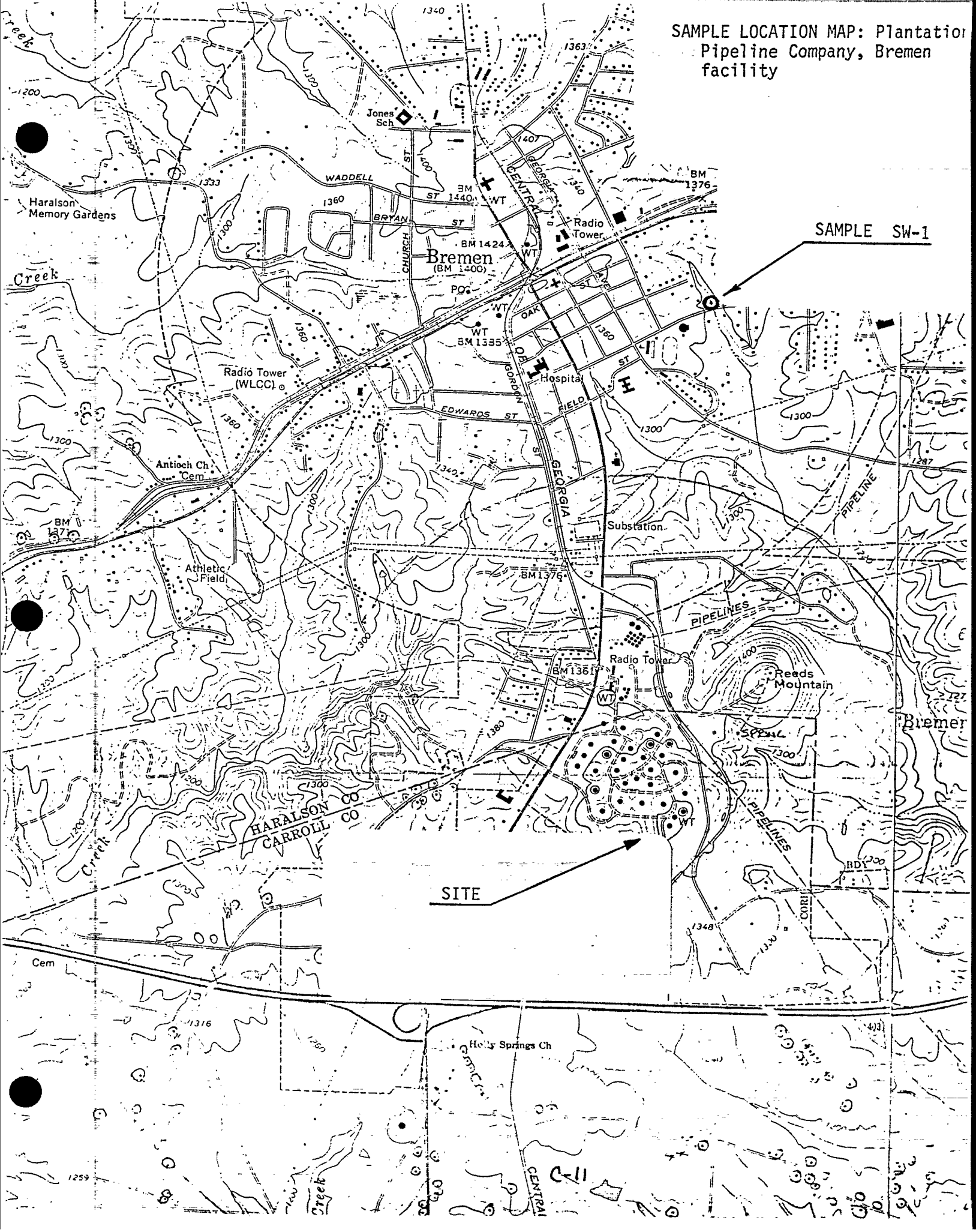
C-9

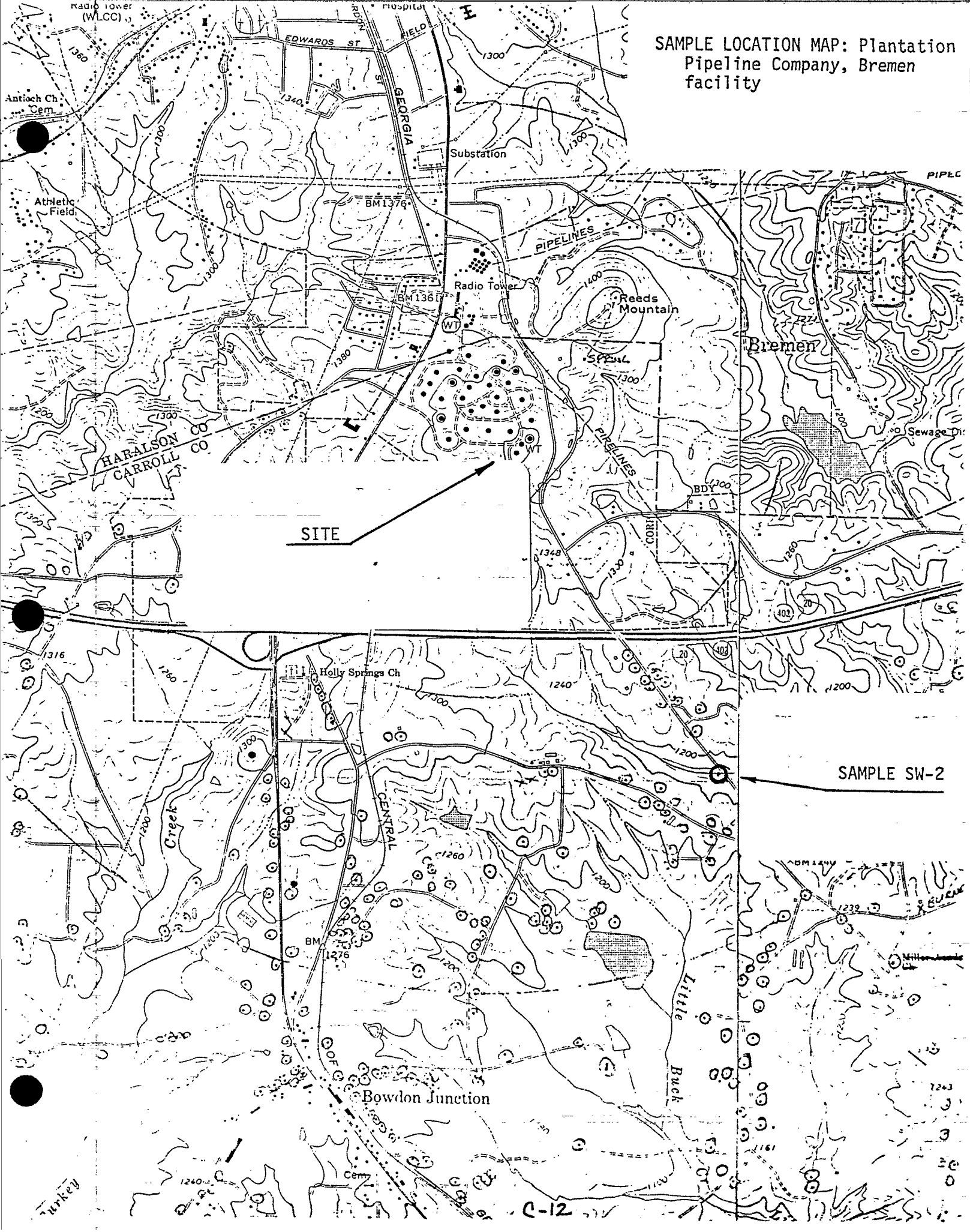
SITE SKETCH: Plantation Pipeline Company Bremen Facility



SCALE 1" = 1,000'±

SAMPLE LOCATION MAP: Plantation Pipeline Company, Bremen facility




SAMPLE LOCATION MAP: Plantation Pipeline Company, Bremen facility
Radio Tower (WLCC)
EDWARDS ST
FIELD
GEORGIA
Antioch Ch
Cem
Substation
Athletic Field
BM1376
PIPELINES
Radio Tower
BM1361
Reeds Mountain
Bremen
HARALSON CO
CARROLL CO
SITE
BDY
Holly Springs Ch
SAMPLE SW-2
CENTRAL
Creek
Little Buck
Bowdon Junction
Cem
Turkey

APPENDIX D

APPENDIX D

REFERENCES

1. Clark W.Z. and A.C. Zisa, 1976, Physiographic Map of Georgia: Georgia Geologic Survey, Scale 1:2,000,000.

2. McConnell, K.I. and C.E. Abrams, 1984, Geology of the Greater Atlanta Region: Georgia Geologic Survey Bulletin 96, 127 p.

3. Brooks, J.F., 1971, Soil Survey of Carroll and Haralson Counties, Georgia: U.S. Department of Agriculture Soil Conservation Service in cooperation with University of Georgia College of Agriculture, Agricultural Experiment Stations, 60 p.

4. Cressler, C.W., C.J. Thurmond and W.G. Hester, 1983, Ground Water in the Greater Atlanta region, Georgia: Georgia Geologic Survey Information Circular 63, 144 p.

APPENDIX E

APPENDIX E

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

EPA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
GA	D042825745

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
Plantation Pipeline Company	U.S. HWY 27, South				
03 CITY	**04 STATE**	**05 ZIP CODE**	**06 COUNTY**	**07 COUNTY CODE**	**08 CONG DIST**
Bremen	GA	30110	Haralson	143	6

09 COORDINATES LATITUDE	LONGITUDE	10 TYPE OF OWNERSHIP (Check one)
33° 45' 04.0"	84° 40' 01.2"	☑ A. PRIVATE ☐ B. FEDERAL ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
11 / 9 / 87 (MONTH DAY YEAR)	☑ ACTIVE ☐ INACTIVE	1942 (BEGINNING YEAR) / PRESENT (ENDING YEAR) ☐ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)

☐ A. EPA ☐ B. EPA CONTRACTOR _____ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
☑ E. STATE ☐ F. STATE CONTRACTOR _____ (Name of firm) ☐ G. OTHER _____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
John O. Costello	Environmental Specialist	GA EPD	(404) 656-7464
09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Brenda Kay	Environmental Specialist	GA EPD	(404) 656-7464
			( )
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
Mr. Dan Edison		Plantation Pipeline U.S. Hwy 27, South Bremen, Georgia 30110	( )
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☑ PERMISSION ☐ WARRANT	11:00 - 11:45 AM	Cloudy, cool

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
George Jeffaries	Plantation Pipeline Co	(404) 261-2137

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
John O. Costello	GA DNR	EPD	(404) 656-7464	12 / 24 / 87 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
GA	D042825743

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES *(Check all that apply)*

- [X] A. SOLID
- [ ] B. POWDER, FINES
- [X] C. SLUDGE
- [ ] D. OTHER _____ *(Specify)*
- [ ] E. SLURRY
- [ ] F. LIQUID
- [ ] G. GAS

02 WASTE QUANTITY AT SITE
(Measures of waste quantities must be independent)

TONS UNKNOWN

CUBIC YARDS _____

NO. OF DRUMS _____

03 WASTE CHARACTERISTICS *(Check all that apply)*

- [X] A. TOXIC
- [ ] B. CORROSIVE
- [ ] C. RADIOACTIVE
- [ ] D. PERSISTENT
- [ ] E. SOLUBLE
- [ ] F. INFECTIOUS
- [ ] G. FLAMMABLE
- [ ] H. IGNITABLE
- [ ] I. HIGHLY VOLATILE
- [ ] J. EXPLOSIVE
- [ ] K. REACTIVE
- [ ] L. INCOMPATIBLE
- [ ] M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	UNKNOWN	N/A	N/A
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	UNKNOWN	N/A	N/A
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES *(See Appendix for most frequently cited CAS Numbers)*

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SLU	LEAD	7800Z	LF	UNKNOWN	N/A
OCC	PETROLEUM	999	LF	"	"

V. FEEDSTOCKS *(See Appendix for CAS Numbers)*

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis, reports)*

STATE OF GEORGIA EPD FILES

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
GA	D 042 925 745

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☑ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☑ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: UNKNOWN — 04 NARRATIVE DESCRIPTION

UNLINED MILLING PITS WERE LOCATED ON A RIDGECREST. GROSS CONTAMINATION OF GROUNDWATER IS NOT LIKELY BUT IS POSSIBLE.

01 ☑ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☑ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0 — 04 NARRATIVE DESCRIPTION

IF CONTAMINANTS ARE BORNE DOWNHILL FROM MILLING PIT AREA BY GRAVITY OR GROUNDWATER, EFFLUENT FLOW MAY CONTAMINATE LOCAL STREAMS OR PONDS.

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☑ F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE: _____) — ☑ POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: 0.05 (Acres) — 04 NARRATIVE DESCRIPTION

PITS WERE UNLINED. SOIL CONTAMINATION MAY HAVE OCCURRED.

01 ☐ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
GA	D042825745

II. HAZARDOUS CONDITIONS AND INCIDENTS *(Continued)*

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION *(Include name(s) of species)*

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES *(Spills, Runoff, Standing liquids, Leaking drums)* — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: UNKNOWN

IV. COMMENTS

BOTH PITS WERE FILLED AND OVER PLANTED WITH GRASS DURING A 11-9-87 SITE VISIT BY J. COSTELLO AND B. KAY. SLUDGE IS CURRENTLY GATHERED IN A LINED IMPOUNDMENT.

V. SOURCES OF INFORMATION *(Cite specific references, e g , state files, sample analysis, reports)*

STATE OF GEORGIA EPD FILES
TRIP REPORT DATED NOVEMBER 16, 1987 BY J. COSTELLO, EPD.

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
GA	D042825745

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC				
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☑ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☑ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☐ F. LANDFILL		
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☐ I. OTHER (Specify)		

04 TREATMENT (Check all that apply)

- ☐ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER (Specify)

05 OTHER

- ☑ A. BUILDINGS ON SITE

06 AREA OF SITE

0.06 (Acres)

COMMENTS

SURFACE IMPOUNDMENTS WERE UTILIZED TO COLLECT NON HAZARDOUS TANK CLEANING WASTE PRIOR TO DISPOSAL IN A PERMITTED COUNTY LANDFILL.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☑ B. MODERATE ☐ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

2 PITS ARE REPORTED TO HAVE BEEN 25' x 50' IN SIZE AND EXCAVATED INTO NATURAL SOILS. NEITHER PIT WAS LINED.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ☑ NO

02 COMMENTS

THE ENTIRE FACILITY IS SURROUNDED BY CHAIN LINK FENCE WITH BARBED WIRE TOP STRANDS.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

STATE OF GEORGIA EPD FILES

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
GA	D042825745

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)	SURFACE	WELL	02 STATUS	ENDANGERED	AFFECTED	MONITORED	03 DISTANCE TO SITE
COMMUNITY	A. ☑	B. ☐		A. ☐	B. ☐	C. ☑	A. 3 (mi)
NON-COMMUNITY	C. ☐	D. ☑		D. ☐	E. ☐	F. ☐	B. 0.7 (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ☑ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 1588.4

03 DISTANCE TO NEAREST DRINKING WATER WELL 0.7 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
UNKNOWN (ft)	UNKNOWN	UNKNOWN (ft)	UNKNOWN (gpd)	☑ YES ☐ NO

09 DESCRIPTION OF WELLS (Including useage, depth, and location relative to population and buildings)

MOST WELLS ARE EITHER DRILLED INTO BEDROCK (300 - 400 FEET) OR BORED INTO SAPROLITE OR SOIL

10 RECHARGE AREA		11 DISCHARGE AREA	
☐ YES ☑ NO	COMMENTS SITE IS ON A RIDGECREST	☐ YES ☑ NO	COMMENTS SITE IS ON A RIDGE CREST

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☑ A. RESERVOIR, RECREATION DRINKING WATER SOURCE * ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

* BREMEN CITY WATER IS DRAWN FROM THE UPPER PART OF REACH CREEK NORTH WEST OF THE SITE.

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
UNNAMED TRIBUTARIES OF BUCK CREEK	☐	< 1 (mi)
WHICH ARE NOT USED	☐	(mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN			02 DISTANCE TO NEAREST POPULATION
ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE	
A. 611 NO. OF PERSONS	B. 2443 NO. OF PERSONS	C. 5554 NO. OF PERSONS	< 1 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE	04 DISTANCE TO NEAREST OFF-SITE BUILDING
1493	0.3 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

THE SITE LIES SOUTH OF DOWNTOWN BREMEN, GEORGIA ON U.S. HIGHWAY 27. LAND USE NORTH OF THE SITE IS MIXED RESIDENTIAL AND COMMERCIAL. SOUTH, EAST AND WEST OF THE SITE POPULATION DENSITY IS LESS AND LAND USE IS PRIMARILY AGRICULTURAL.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
GA	D042825745

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☑ B. $10^{-4} - 10^{-6}$ cm/sec ☐ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☑ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH	
_____ (ft)	UNKNOWN (ft)	UNKNOWN	

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE		
		SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
10 (in)	3.5 (in)	15 %	SOUTHEAST	18 %

09 FLOOD POTENTIAL	10
SITE IS IN _____ YEAR FLOODPLAIN	☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)		12 DISTANCE TO CRITICAL HABITAT (of endangered species)
ESTUARINE	OTHER	_____ (mi)
A. _____ (mi)	B. _____ (mi)	ENDANGERED SPECIES: _____

13 LAND USE IN VICINITY

DISTANCE TO:			
COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS PRIME AG LAND	AG LAND
A. < 1 (mi)	B. 0.6 (mi)	C. _____ (mi)	D. 0.2 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

THE SITE LIES ALONG THE CREST OF A CURVILINEAR RIDGE EXTENDING SOUTHWESTWARD FROM REEDS MOUNTAIN.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

STATE OF GEORGIA EDD FILES
40 CFR SEC. 300, APP. A

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
GA	D042825745

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER	2	EPD LABORATORIES, ATLANTA	11/87
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
GEOLOGIC	SEE V. BELOW

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☐ GROUND ☐ AERIAL

02 IN CUSTODY OF _____ (Name of organization or individual)

03 MAPS ☑ YES ☐ NO

04 LOCATION OF MAPS: TRIP REPORTS BY COSTELLO DATED 11/16/87 AND 12/10/87

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

OBSERVATIONS WERE MADE OF LOCAL BEDROCK GEOLOGY AND GEOMORPHOLOGY. THE SITE IS UNDERLAIN BY MICA SCHIST THAT STRIKES APPROXIMATELY NORTH 30° EAST AND DIPS 45°-75° TO THE SOUTHEAST. THIS MEASUREMENT WAS TAKEN ON FOLIATION WHICH PARALLELS COMPOSITIONAL LAYERING IN THE ROCK. THIS ORIENTATION COUPLED WITH THE RIDGE FOR LOCATION OF THE SITE WOULD SUGGEST A STRONG SOUTHEASTWARD CONTROL ON POTENTIAL CONTAMINANT MIGRATION

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

STATE OF GEORGIA EPD FILES

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
GA	D042825745

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
PLANTATION PIPELINE CO.		P.O. Box 18616		ATLANTA	GA	30326

PARENT COMPANY (If applicable)

08 NAME	09 D+B NUMBER	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE	12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE

IV. REALTY OWNER(S) (If applicable: list most recent first)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

STATE OF GEORGIA EPD FILES

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
GA	D 042825745

II. CURRENT OPERATOR *(Provide if different from owner)*

01 NAME	02 D+B NUMBER

03 STREET ADDRESS *(P.O. Box, RFD #, etc.)*	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER

OPERATOR'S PARENT COMPANY *(If applicable)*

10 NAME	11 D+B NUMBER

12 STREET ADDRESS *(P.O. Box, RFD #, etc.)*	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

III. PREVIOUS OPERATOR(S) *(List most recent first; provide only if different from owner)*

01 NAME	02 D+B NUMBER

03 STREET ADDRESS *(P.O. Box, RFD #, etc.)*	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATORS' PARENT COMPANIES *(If applicable)*

10 NAME	11 D+B NUMBER

12 STREET ADDRESS *(P.O. Box, RFD #, etc.)*	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS *(P.O. Box, RFD #, etc.)*	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS *(P.O. Box, RFD #, etc.)*	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS *(P.O. Box, RFD #, etc.)*	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS *(P.O. Box, RFD #, etc.)*	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

IV. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis, reports)*

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
GA	D042825745

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	
05 CITY	06 STATE / 07 ZIP CODE	

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
GA	D 042825745

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ D. SPILLED MATERIAL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ E. CONTAMINATED SOIL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ F. WASTE REPACKAGED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ G. WASTE DISPOSED ELSEWHERE — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ H. ON SITE BURIAL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ I. IN SITU CHEMICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ J. IN SITU BIOLOGICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ K. IN SITU PHYSICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ L. ENCAPSULATION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ M. EMERGENCY WASTE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ N. CUTOFF WALLS — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ P. CUTOFF TRENCHES/SUMP — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Q. SUBSURFACE CUTOFF WALL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
GA	D04L825745

II PAST RESPONSE ACTIVITIES *(Continued)*

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ S. CAPPING/COVERING — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

III SOURCES OF INFORMATION *(Cite specific references e.g., state files, sample analysis, reports)*

EPA 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
GA	D042825745

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☑ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

III. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis, reports)*

EPA FORM 2070-13 (7-81)

APPENDIX F

Facility name: PLANTATION PIPELINE COMPANY
Location: U.S. HIGHWAY 27 SOUTH
BREMEN, GEORGIA 30110

EPA Region: IV

Person(s) in charge of the facility: MR. GEORGE JEFFARIES
PLANTATION PIPELINE COMPANY
P.O. BOX 18616
ATLANTA, GEORGIA
30326

Name of Reviewer: _____ Date: _____

General description of the facility:

(For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action, etc.)

THE FACILITY CONSISTS OF TWO RECLAIMED PITS AT THE PLANTATION PIPELINE CO. BREMEN, GA TANK FARM AND TERMINAL. THE PITS WERE USED PRIOR TO 1982 TO CONTAIN INFREQUENTLY GENERATED NON HAZARDOUS PETROLEUM TANK CLEANING WASTE. IT IS SUSPECTED THAT AMOUNTS OF LEAD AND MERCURY MAY HAVE CONTAMINATED THE GROUNDWATER BELOW THE UNLINED PITS. DETERMINATION OF THIS WOULD REQUIRE A COMPLETE SOIL AND GROUND WATER CONTAMINATION ASSESSMENT INCLUDING INSTALLATION OF MONITORING WELLS AND SOIL AND GROUND WATER ANALYSIS

Scores: S_M = 0 (S_{gw} = 0 S_{sw} = 0 S_a = NOT SCORED)
S_{FE} = NOT SCORED
S_{DC} = NOT SCORED

FIGURE 1
HRS COVER SHEET

F-1

HRS RCRA STATUS

Plantation Pipeline Company, Bremen Facility is classified as a non-handler of hazardous waste on the November, 1987 Notifiers List.

HRS CONCLUSIONS AND RECOMMENDATIONS

Plantation Pipeline Company, Bremen Facility periodically cleans petroleum storage tanks to remove rater, rust, etc. Waste material is presently collected in a lined impoundment from which it is gathered for disposal at a nearby licensed landfill. Prior to 1982, two unlined pits at the southeast side of the tank farm were utilized for tank cleaning waste storage. Water material was deemed non-hazardous by Georgia EPD, but it was suspected that trace amounts of lead and mercury present in the waste could affect local ground water quality. Since 1982, both pits have been covered and grassed to control erosion.

To determine if ground water contamination has occurred, I recommend that a Site Specific Environmental Assessment be conducted. The assessment program should include soil sampling, monitoring well installation along with analysis of soil and ground water samples for total metals and volatile organic compounds.

Ground Water Route Work Sheet						
Rating Factor		Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
1	Observed Release	0 45	1		45	3.1
	If observed release is given a score of 45, proceed to line 4. If observed release is given a score of 0, proceed to line 2.					
2	Route Characteristics					3.2
	Depth to Aquifer of Concern	0 1 2 3	2		6	
	Net Precipitation	0 1 2 3	1		3	
	Permeability of the Unsaturated Zone	0 1 2 3	1		3	
	Physical State	0 1 2 3	1		3	
	Total Route Characteristics Score				15	
3	Containment	0 1 2 3	1		3	3.3
4	Waste Characteristics					3.4
	Toxicity/Persistence	(0) 3 6 9 12 15 18	1	0	18	
	Hazardous Waste Quantity	(0) 1 2 3 4 5 6 7 8	1	0	8	
	Total Waste Characteristics Score			0	26	
5	Targets					3.5
	Ground Water Use	0 1 2 3	3		9	
	Distance to Nearest Well/Population Served	0 4 6 8 10 / 12 16 18 20 / 24 30 32 35 40	1		40	
	Total Targets Score				49	
6	If line 1 is 45, multiply 1 x 4 x 5 / If line 1 is 0, multiply 2 x 3 x 4 x 5			0	57,330	
7	Divide line 6 by 57,330 and multiply by 100		S_{gw} =	0		

FIGURE 2
GROUND WATER ROUTE WORK SHEET

F-4

.2. *Route Characteristics. Facility slope d intervening terrain* are indicators of potential for contaminated runoff or lls at a facility to be transported to sur- e water. The facility slope is an indicator the potential for runoff or spills to leave facility. Intervening terrain refers to average slope of the shortest path ich would be followed by runoff between facility boundary and the nearest down- surface water. This rating factor can be essed using topographic maps. Table 8 ws values assigned to various facility ditions.

ne-year 24-hour rainfall (obtained from ure 8) indicates the potential for area rms to cause surface water contamina- n as a result of runoff, erosion, or flow r dikes. Assign a value as follows:

Amount of rainfall (inches)	Assigned value
	0
o 2.0	1
o 3.0	2
	3

ABL VALUES FOR FACILITY SLOPE AND INTERVENING TERRAIN

Facility slope	Intervening terrain: Terrain average slope <3 pct[1]	3 to 5 pct	5 to 8 pct	> 8 pct	Site in surface water
ty is closed basin	0	0	0	0	3
ty has average pe (<3 pct)	0	1	1	2	3
ge slope (3 to 5)	0	1	2	2	3
ge slope (5 to 8)	0	2	2	3	3
ge slope (> 8)	0	2	3	3	3

errain average slope <3 pct; or site separated from body by areas of higher elevation.

Surface Water Route Work Sheet

	Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
1	Observed Release	0 45	1		45	4.1
	If observed release is given a value of 45, proceed to line 4. If observed release is given a value of 0, proceed to line 2.					
2	Route Characteristics					4.2
	Facility Slope and Intervening Terrain	0 1 2 3	1		3	
	1-yr. 24-hr. Rainfall	0 1 2 3	1		3	
	Distance to Nearest Surface Water	0 1 2 3	2		6	
	Physical State	0 1 2 3	1		3	
	Total Route Characteristics Score				15	
3	Containment	0 1 2 3	1		3	4.3
4	Waste Characteristics					4.4
	Toxicity/Persistence	(0) 3 6 9 12 15 18	1	0	18	
	Hazardous Waste Quantity	(0) 1 2 3 4 5 6 7 8	1	0	8	
	Total Waste Characteristics Score			0	26	
5	Targets					4.5
	Surface Water Use	0 1 2 3	3		9	
	Distance to a Sensitive Environment	0 1 2 3	2		6	
	Population Served/Distance to Water Intake Downstream	0 4 6 8 10 12 16 18 20 24 30 32 35 40	1		40	
	Total Targets Score				55	
6	If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			0	64,350	
7	Divide line 6 by 64,350 and multiply by 100		S_{sw} =	0		

FIGURE 7
SURFACE WATER ROUTE WORK SHEET

F-5

GROUND WATER ROUTE

WASTE CHARACTERISTICS SCORE = 0

THEREFORE, $S_{gw} = 0$

1. OBSERVED RELEASE

Contaminants detected (5 maximum):

Rationale for attributing the contaminants to the facility:

2. ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifer(s) of concern:

WATER TABLE / FRACTURED BEDROCK AQUIFER

(REFERENCE 1)

Depth(s) from the ground surface to the highest seasonal level of the saturated zone [water table(s)] of the aquifer of concern:

UNKNOWN

Depth from the ground surface to the lowest point of waste disposal/storage:

ASSUME 6 FEET (REFERENCE 2)

Net Precipitation

Mean Annual or seasonal precipitation (list months for seasonal):

52 INCHES
(REFERENCE 3)

Mean annual lake or seasonal evaporation (list months for seasonal):

42 INCHES
(REF. 3)

Net precipitation (subtract the above figures):

10 INCHES

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

MICACEOUS CLAY TO CLAY LOAM
(REFERENCE 4)

Permeability associated with soil type:

$< 10^{-5} > 10^{-7}$ CM/SEC
(REFERENCE 3)

Physical State

Physical state of substances at time of disposal (or at present time for generated gases):

SLUDGE
(REFERENCE 5)

3. CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

UNLINED PIT EXCAVATED IN SOIL
(REFERENCE 5)

Method with highest score:

4. WASTE CHARACTERISTICS SCORE = 0

Toxicity and Persistence VALUE = 0

Compound(s) evaluated:

TANK CLEANING WASTE DEEMED NON HAZARDOUS BY GA. EPD. WAS TRANSPORTED TO A LICENSED LANDFILL (REFERENCE 5).

Compound with highest score:

N/A

Hazardous Waste Quantity VALUE = 0

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

0

Basis of estimating and/or computing waste quantity:

N/A

5. TARGETS

Ground Water Use

Use(s) of aquifer(s) of concern within a 3-mile radius of the facility:

DRINKING WATER

(REFERENCE 6)

Distance to the Nearest Well

Location of nearest well drawing from aquifer of concern or occupied building not served by a public water supply:

RESIDENTIAL AREA ALONG THE HARALSON / CARROLL COUNTY LINE WEST OF U.S. HIGHWAY 27.

(REFERENCE 7)

Distance to above well or building:

0.7 MILES

(REFERENCE 7)

Population Served by Ground Water Wells Within a 3-Mile Radius

Identified water-supply well(s) drawing from aquifer(s) of concern within a 3-mile radius and populations served by each:

418 WELLS x 3.8 PEOPLE

(REFERENCE 6)

Computation of land area irrigated by supply well(s) drawing from aquifer(s) of concern within a 3-mile radius, and conversion to population (1.5 people per acre):

N/A

Total population served by ground water within a 3-mile radius:

1588.4 (REFERENCE 6)

SURFACE WATER ROUTE

WASTE CHARACTERISTICS SCORE = 0
THEREFORE, $S_{SW} = 0$

1. OBSERVED RELEASE

Contaminants detected in surface water at the facility or downhill from it (5 maximum):

Rationale for attributing the contaminants to the facility:

2. ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

5%

(REFERENCE 7)

Name/description of nearest downslope surface water:

PRIVATE STOCK POND AT HEAD WATERS OF UNNAMED TRIBUTARY OF BUCK CREEK

(REFERENCE 7)

Average slope of terrain between facility and above-cited surface water body in percent:

12.5%

(REFERENCE 7)

Is the facility located either totally or partially in surface water?

NO

(REFERENCE 7)

Is the facility completely surrounded by areas of higher elevation?

No
(Ref. 7)

1-Year 24-Hour Rainfall in Inches

3.5
(Ref. 3)

Distance to Nearest Downslope Surface Water

1600 FEET
(Ref. 7)

Physical State of Waste

3. CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Method with highest score:

4. WASTE CHARACTERISTICS SCORE = 0

Toxicity and Persistence VALUE = 0

Compound(s) evaluated:

TANK CLEANING WASTE DEEMED NON HAZARDOUS BY GA. EPD WAS REMOVED TO A LICENSED LANDFILL (REF. 5)

Compound with highest score:

N/A

Hazardous Waste Quantity VALUE = 0

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give reasonable estimate even if quantity is above maximum):

0

Basis of estimating and/or computing waste quantity:

N/A

5. TARGETS

Surface Water Use

Use(s) of surface water within 3 miles downstream of the hazardous substance:

WATERING LIVESTOCK (REF. 1)

Is there tidal influence?

No

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

N/A

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

N/A

Distance to critical habitat of an endangered species or national wildlife refuge, if 1 mile or less:

N/A

Population Served by Surface Water

Location(s) of water-supply intake(s) within 3 miles (free-flowing bodies) or 1 mile (static water bodies) downstream of the hazardous substance and population served by each intake:

0
(Ref. 7)

Computation of land area irrigated by above-cited intake(s) and conversion to population (1.5 people per acre):

0

Total population served:

0

Name/description of nearest of above water bodies:

N/A

Distance to above-cited intakes, measured in stream miles:

N/A

AIR ROUTE NOT SCORED

1. OBSERVED RELEASE

Contaminants detected:

Date and location of detection of contaminants:

Methods used to detect the contaminants:

Rationale for attributing the contaminants to the site:

2. WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

Most incompatible pair of compounds:

Toxicity

Most toxic compound:

Hazardous Waste Quantity

Total quantity of hazardous waste:

Basis of estimating and/or computing waste quantity:

3. TARGETS

Population Within 4-Mile Radius

Circle radius used, give population, and indicate how determined:

0 to 4 mi. 0 to 1 mi. 0 to ½ mi. 0 to ¼ mi.

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

Distance to critical habitat of an endangered species, if 1 mile or less:

Land Use

Distance to commercial/industrial area, if 1 mile or less:

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

Distance to residential area, if 2 miles or less:

Distance to agricultural land in production within past 5 years, if 1 mile or less:

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

FIRE AND EXPLOSION NOT SCORED

1. CONTAINMENT

Hazardous substances present:

Type of containment, if applicable:

2. WASTE CHARACTERISTICS

Direct Evidence

Type of instrument and measurements:

Ignitability

Compound used:

Reactivity

Most reactive compound:

Incompatibility

Most incompatible pair of compounds:

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility:

Basis of estimating and/or computing waste quantity:

3. TARGETS

Distance to Nearest Population

Distance to Nearest Building

Distance to Sensitive Environment

Distance to wetlands:

Distance to critical habitat:

Land Use

Distance to commercial/industrial area, if 1 mile or less:

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

Distance to residential area, if 2 miles or less:

Distance to agricultural land in production within past 5 years, if 1 mile or less:

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

Population Within 2-Mile Radius

Buildings Within 2-Mile Radius

DIRECT CONTACT *NOT SCORED*

1. OBSERVED INCIDENT

   Date, location, and pertinent details of incident:

2. ACCESSIBILITY

   Describe type of barrier(s):

3. CONTAINMENT

   Type of containment, if applicable:

4. WASTE CHARACTERISITCS

   Toxicity

   Compounds evaluated:

   Compound with highest score:

5. TARGETS

Population within one-mile radius

Distance to critical habitat (of endangered species)

PRELIMINARY ASSESSMENT COVER SHEET
PLANTATION PIPELINE CO. BREMEN FACILITY
GAD042825745

A. HISTORY OF SITE

The facility was built early in 1942 to assist in the movement of bulk petroleum from Baton Rouge, Louisiana to Greensboro, North Carolina. This facility serves as a pumping station and a delivery terminal. In 1976 the company began a routine maintenance program of removing a waste material from storage tanks, sump tanks and oil-water separators. The waste consists of oily water, dirt and rust scale in a liquid and solid phase. Prior to 1982, the solid phase of this waste was placed in two on-site unlined impoundments, spread in thin layers and allowed to dry. The resulting sludge was disposed of at local landfills on an irregular basis.

In 1982 this practice was determined to be in violation of the Georgia Rules for Solid Waste Management. One impoundment was closed by filling with compacted earth and the other was subsequently used for admixing the sludge with soil only. The admixing increased the percent solids content of the sludge so that it could be landfilled.

B. NATURE OF HAZARDOUS MATERIALS

The sludge was analyzed in 1981 and determined not to be hazardous as defined in Section 391-3-11-.02 of the Georgia Rules for Hazardous Waste Management. However, the sludge does contain lead (range 1.2 - 3.6 mg/L for three samples) and measureable concentrations of mercury (0.04 mg/L in one sample). The liquid phase of the waste material consists of water and various hydrocarbons and is discharged from the site under and NPDES permit.

C. DESCRIPTION OF HAZRADOUS CONDITIONS, INCIDENTS, PERMIT VIOLATIONS

In 1972 a spill and fire occurred at the facility. The amount of product lost is unknown, but most of it is thought to have been consumed in the fire. The two impoundments used for storage of the sludge from the tank cleaning operation are unlined and the sludge does contain lead and mercury. Some migration of lead, mercury or hydrocarbons into soil and groundwater may have occurred.

D. ROUTES OF CONTAMINATION

Percolation of lead, mercury or hydrocarbons from the impoundments, through the soil and into the ground water may have occurred.

E. POSSIBLE AFFECTED POPULATION AND RESOURCES

The City of Bremen lies to the north of the facility. The city is served by a municipal supply system, but shallow drinking water wells may be in use in the area.

HRS REFERENCES

1. Cressler, C.W. C.J. Thurmond and W.G. Hester, 1984, Ground Water in the Greater Atlanta Region, Georgia: Georgia Geologic Survey Information Circular 63, 144 p.

2. The MITRE Corporation, 1986, Superfund National Priorities List Seminar, EPA Region IV, Atlanta, Georgia 57 p.

3. National Oil and Hazardous Substances Contingency Plan, 40 CFR Part 300, Appendix A, 47 Federal Register, 31219.

4. Brooks, J.F. 1971, Soil Survey on Carroll and Haralson Counties, Georgia: U.S. Department of Agriculture Soil Conservation Service in cooperation with University of Georgia, College of Agriculture, Agricultural Experiment Stations, 60 p.

5. Preliminary Assessment of Plantation Pipeline Company, Bremen Facility by Charles Evans, dated 6/21/85.

6. Trip Report describing well survey of Bremen, Georgia area by John O. Costello, dated 12/10/87.

7. U.S. Geological Survey, Bremen Georgia and Temple, Georgia 7.5 Minute Topographic Quadrangles, Scale 1:24,000.

F. RECOMMENDATIONS AND JUSTIFICATIONS

The on-site impoundments are unlined and contamination of soil and ground water may have occurred. A site inspection with a "LOW" priority is recommended for this site.

G. REFERENCE TO SUPPORTING DATA SOURCES

1. USGS Map, Bremen Quadrangle (1973), 1:24,000 scale.
2. Letter; November 5, 1981; Subject: Hazardous Waste Management, Georgia Facilities.
3. Letter; October 6, 1982; Subject: Inspection of Plantation Pipeline Co. Bremen Facility.
4. Letter; March 7, 1983; Subject: Solid Waste Disposal.
5. Letter; August 17, 1983; Solid Waste Disposal-Bremen and Austell Facilities.
6. Letter; October 27, 1983; RE: Management of Surface Impoundments Used to Store Non-Hazardous Sludge.
7. Phone Conversation; June 19, 1985; with George Jeffares, Supervising Engineer, Plantation Pipeline Co., Subject: Plantation Pipeline Bremen Facility.

CPE/mcw042

REF. 5

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

EPA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
GA	D042825745

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
Plantation Pipeline Co. Bremen Facility	U.S. Hwy. 27 South				
03 CITY	**04 STATE**	**05 ZIP CODE**	**06 COUNTY**	**07 COUNTY CODE**	**08 CONG DIST**
Bremen	GA	30326	Haralson	143	6
09 COORDINATES LATITUDE	LONGITUDE				
33° 45' 04.0"	084° 40' 01.9"				

10 DIRECTIONS TO SITE (Starting from nearest public road)

From the intersection of U.S. Hwy. 27 and Interstate 20 travel north 1.1 miles on U.S. 27. Facility lies on both sides of U.S. 27.

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)			
Plantation Pipeline Co.	P. O. Box 18616			
03 CITY	**04 STATE**	**05 ZIP CODE**	**06 TELEPHONE NUMBER**	
Atlanta	GA	30326	(404) 261-2137	
07 OPERATOR (If known and different from owner)	**08 STREET** (Business, mailing, residential)			
Same				
09 CITY	**10 STATE**	**11 ZIP CODE**	**12 TELEPHONE NUMBER**	
			( )	

13 TYPE OF OWNERSHIP (Check one)

☒ A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL

☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☒ A. RCRA 3001 DATE RECEIVED: 11/12/80 (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION

☒ YES ☐ NO DATE 08 24 82 (MONTH DAY YEAR)

BY (Check all that apply)

☐ A. EPA ☐ B. EPA CONTRACTOR ☒ C. STATE ☐ D. OTHER CONTRACTOR

☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: _____ (Specify)

CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)	03 YEARS OF OPERATION		
☒ A. ACTIVE ☐ B. INACTIVE ☐ C. UNKNOWN	1942 (BEGINNING YEAR)	present (ENDING YEAR)	☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Tank bottoms; heavy metals - lead, mercury; hydrocarbons.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

Possible contamination of soil and groundwater.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)

☐ A. HIGH (Inspection required promptly) ☐ B. MEDIUM (Inspection required) ☒ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)		03 TELEPHONE NUMBER	
George Jeffares	Plantation Pipeline Co.		(404) 261-2137	
04 PERSON RESPONSIBLE FOR ASSESSMENT	**05 AGENCY**	**06 ORGANIZATION**	**07 TELEPHONE NUMBER**	**08 DATE**
Charles P. Evans CPE	DNR	EPD-RAU	(404)656-7404	06/21/85 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

F-25

REF. 5

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
GA	D042825745

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES *(Check all that apply)*

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☒ C. SLUDGE
- ☐ D. OTHER _____ *(Specify)*
- ☐ E. SLURRY
- ☒ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE
(Measures of waste quantities must be independent)

TONS _____
CUBIC YARDS unknown
NO. OF DRUMS _____

03 WASTE CHARACTERISTICS *(Check all that apply)*

- ☒ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☐ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☐ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☐ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	unknown	NA	NA
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	unknown	NA	NA
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES *(See Appendix for most frequently cited CAS Numbers)*

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SLU	lead tetraethyl	78002	LF	unknown	NA
OCC	petroleum	999	LF	unknown	NA

V. FEEDSTOCKS *(See Appendix for CAS Numbers)*

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis, reports)*

Phone conversation with George Jeffares, Supervising Engineer, Plantation Pipeline Company.
GA EPD State Files - Plantation Pipeline Co., Bremen Facility GAD042825745.

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
GA	D042825745

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [X] A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — [X] POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Impoundments where sludge was stored/treated are unlined. Possible contamination of ground water.

01 ☐ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 [X] F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE: _____) — [X] POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: _____ (Acres) — 04 NARRATIVE DESCRIPTION

Spill and fire occurred in 1972. Impoundments where sludge was stored/treated are unlined.

01 ☐ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

EPA FORM 2070-12 (7-81)

REF. 5

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
GA	D042825745

II. HAZARDOUS CONDITIONS AND INCIDENTS *(Continued)*

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION *(Include name(s) of species)*

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES *(Spills/runoff/standing liquids/leaking drums)* — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: 0

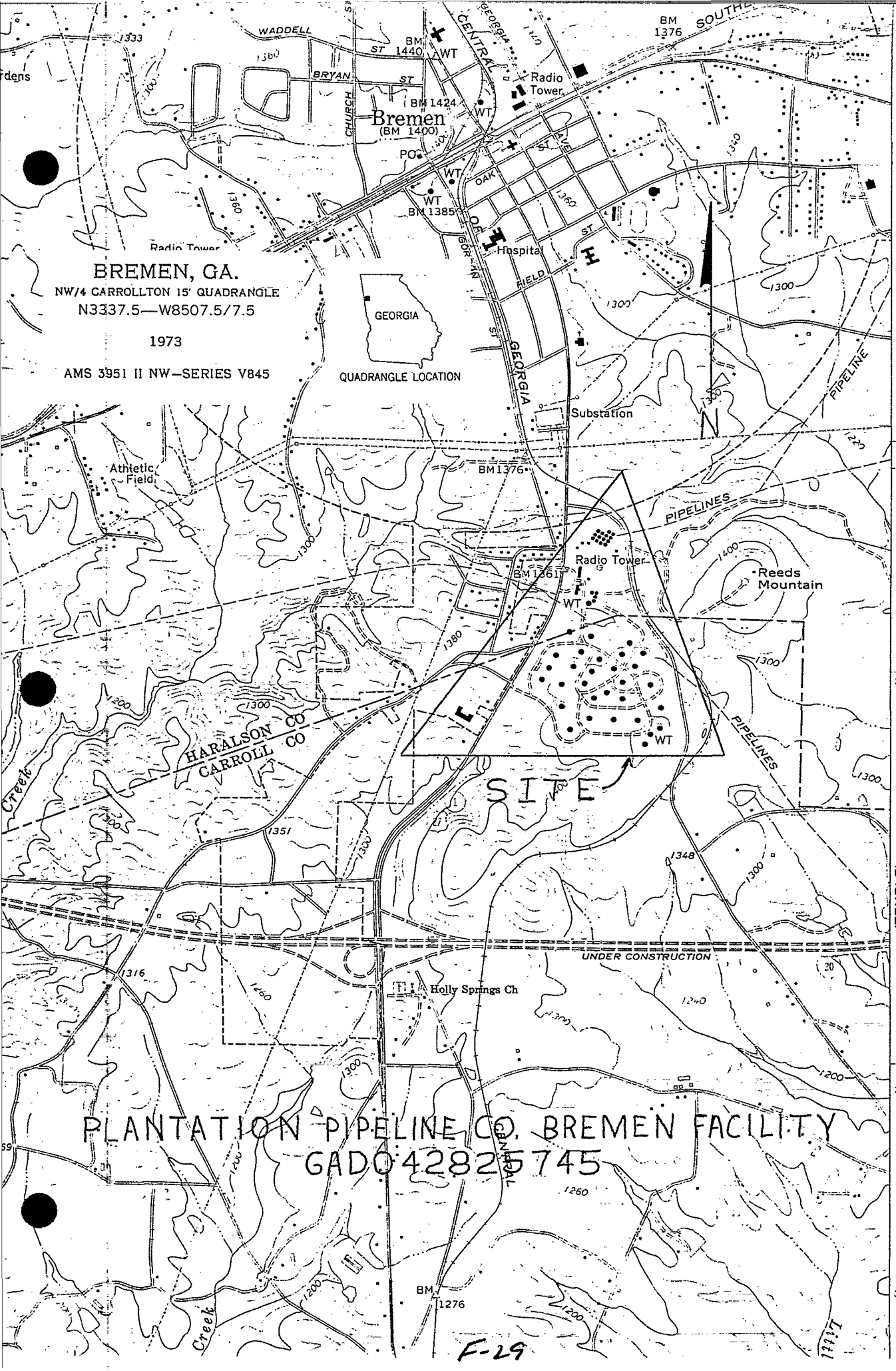
IV. COMMENTS

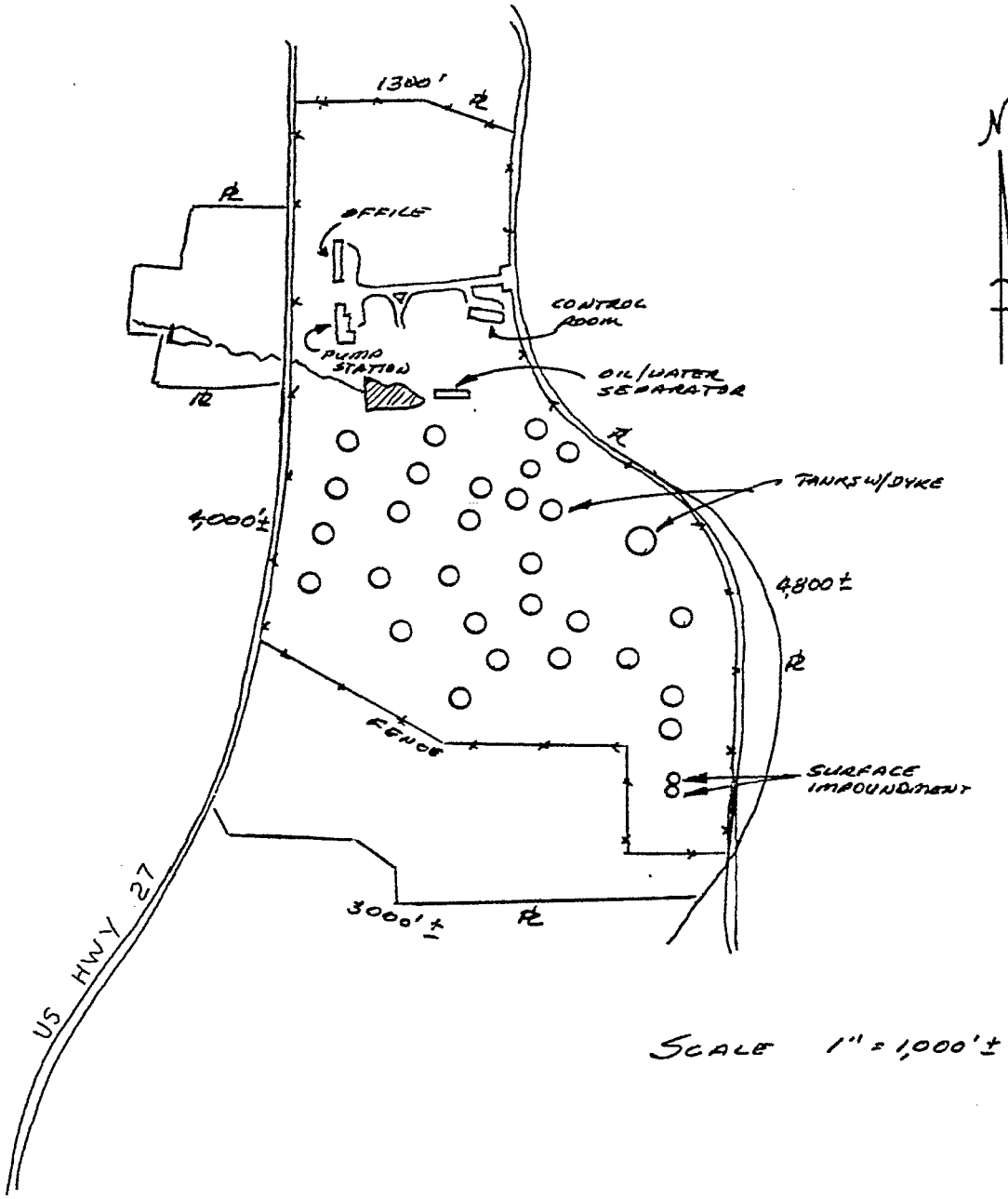
None

V. SOURCES OF INFORMATION *(Cite specific references, e. g., state files, sample analysis, reports)*

GA EPD File Plantation Pipeline Co., Bremen Facility GAD042825745.

EPA FORM 2070-12 (7-81)


REF. 5
BREMEN, GA.
NW/4 CARROLLTON 15' QUADRANGLE
N3337.5—W8507.5/7.5
1973
AMS 3951 II NW—SERIES V845
GEORGIA
QUADRANGLE LOCATION
Bremen
(BM 1400)
BM 1424
BM 1440
BM 1376
BM 1385
BM 1361
BM 1276
Radio Tower
Hospital
Substation
Athletic Field
Reeds Mountain
PIPELINE
PIPELINES
HARALSON CO
CARROLL CO
SITE
UNDER CONSTRUCTION
Holly Springs Ch
WADDELL
BRYAN ST
CHURCH ST
CENTRAL AVE
OAK ST
GEORGIA ST
FIELD
3732
42'30"
3731
3730
3728
3727
(TEMPLE)
3951 II NE
PLANTATION PIPELINE CO. BREMEN FACILITY
GADO42825745
F-29



PLANTATION PIPELINE CO. BREMEN FACILITY
GAD042825745

REFERENCE 6

Georgia Department of Natural Resources

205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334

J. Leonard Ledbetter, Commissioner
Harold F. Reheis, Assistant Director
Environmental Protection Division

TRIP REPORT

December 10, 1987

SITE NAME AND LOCATION:	Plantation Pipeline Company Bremen, Georgia
EPA ID NUMBER:	GAD042825745
COUNTY:	Haralson and Carroll
TRIP BY:	John O. Costello J.O.C. Environmental Specialist Site Assessment Unit
ACCOMPANIED BY:	N/A
DATE AND TIME OF INVESTIGATION:	October 16, 1987 8:00 - 4:30 November 6, 1987 8:00 - 4:30
OFFICIALS CONTACTED:	Mr. Donny Harper Water Department, City of Bremen Bremen, Georgia 30110
REFERENCE:	Directive from SIP Management to assess site.

COMMENTS:

I drove to the City of Bremen, Georgia on October 16, 1987 to initiate a survey of privately-owned drinking water wells lying within a 3-mile radius of Plantation Pipeline Company's Bremen facility. I met Mr. Donny Harper of the Bremen Water Department at City Hall. Mr. Harper examined my topographic maps of the study area and marked the extent of municipal water lines in and near Bremen. He mentioned that in some cases, even though water lines were run, a few residents had not tapped into the system. He also mentioned that the City of Waco southwest of Bremen provided municipal water for some of the residents. He suggested that I contact Haralson and Carrol County health officials for additional information.

After leaving City Hall, I began a systematic driving tour of all roads lying within the 3-mile radius of Plantation Pipeline Company.

I noted that most of the wells were either drilled or bored. A Mr. Winkles who lives at the Bremen VFW Lodge on US Hwy. 78 East of town described 2 drilled wells that service both the VFW Post and one of his rental properties. They extend 300 and 400 feet respectively and are both completed into bedrock. Approximately one half of the area had been surveyed by day's end on October 16. Therefore, I returned to the Bremen area on the morning of November 6, 1987 to complete the survey.

CONCLUSIONS:

A total of 418 dwellings that utilize privately-owned wells as a drinking water source were located within a 3-mile radius of Plantation Pipeline Company. Most of the wells. (418 x 3.8 = 1588.4 targets)

RECOMMENDATIONS AND FOLLOW-UP REQUIRED: Gather 2 surface water samples.

PHOTOGRAPHS: None

NUMBER OF WASTE/ENVIRONMENTAL SAMPLES TAKEN: None

REVIEWED BY: Randolph D Williams **DATE:** 12/22/87

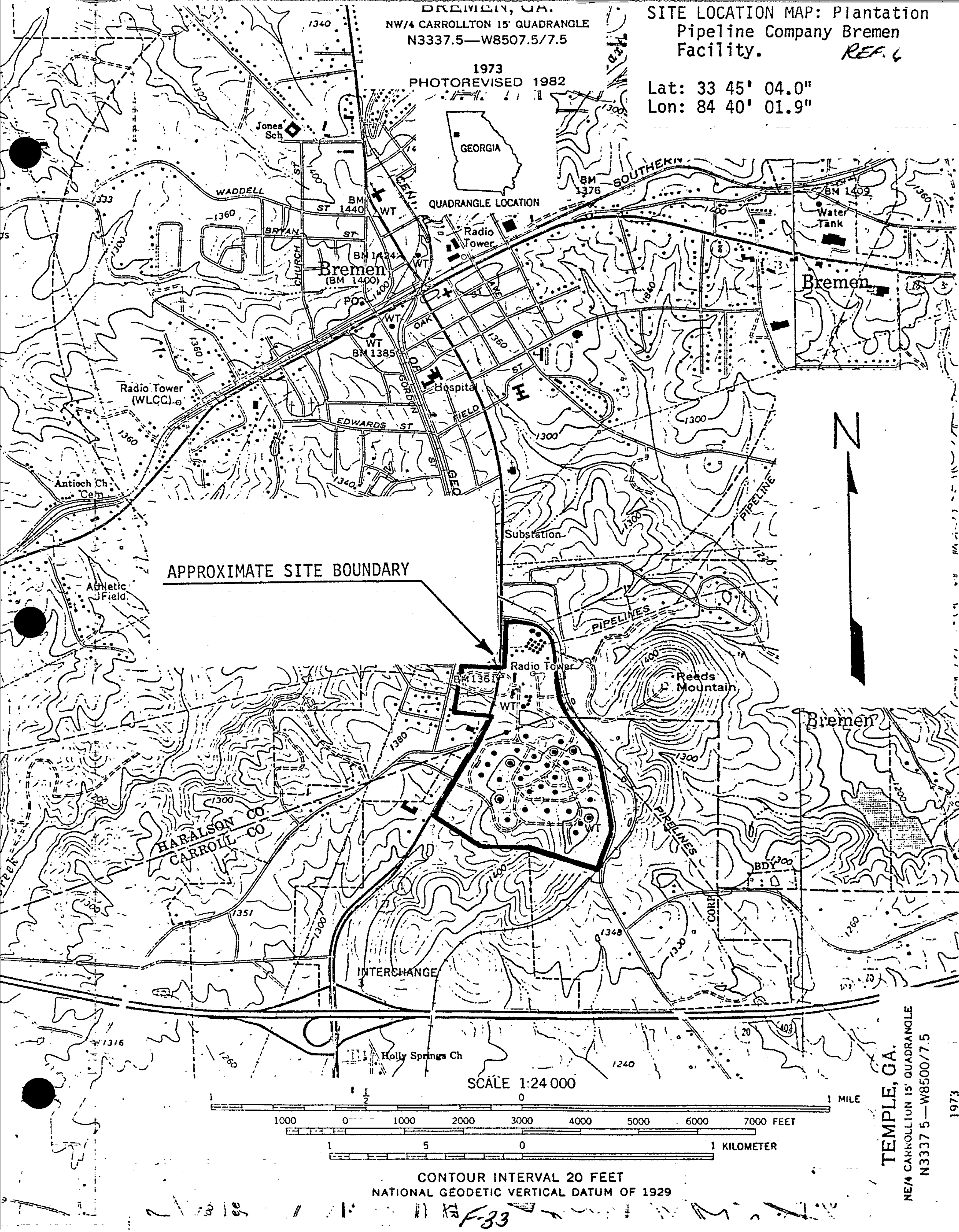
ATTACHMENTS: Site Location Map
Site Sketch

JOC:zr015

File - Plantation Pipeline Company

SITE LOCATION MAP: Plantation Pipeline Company Bremen Facility. REF. 4

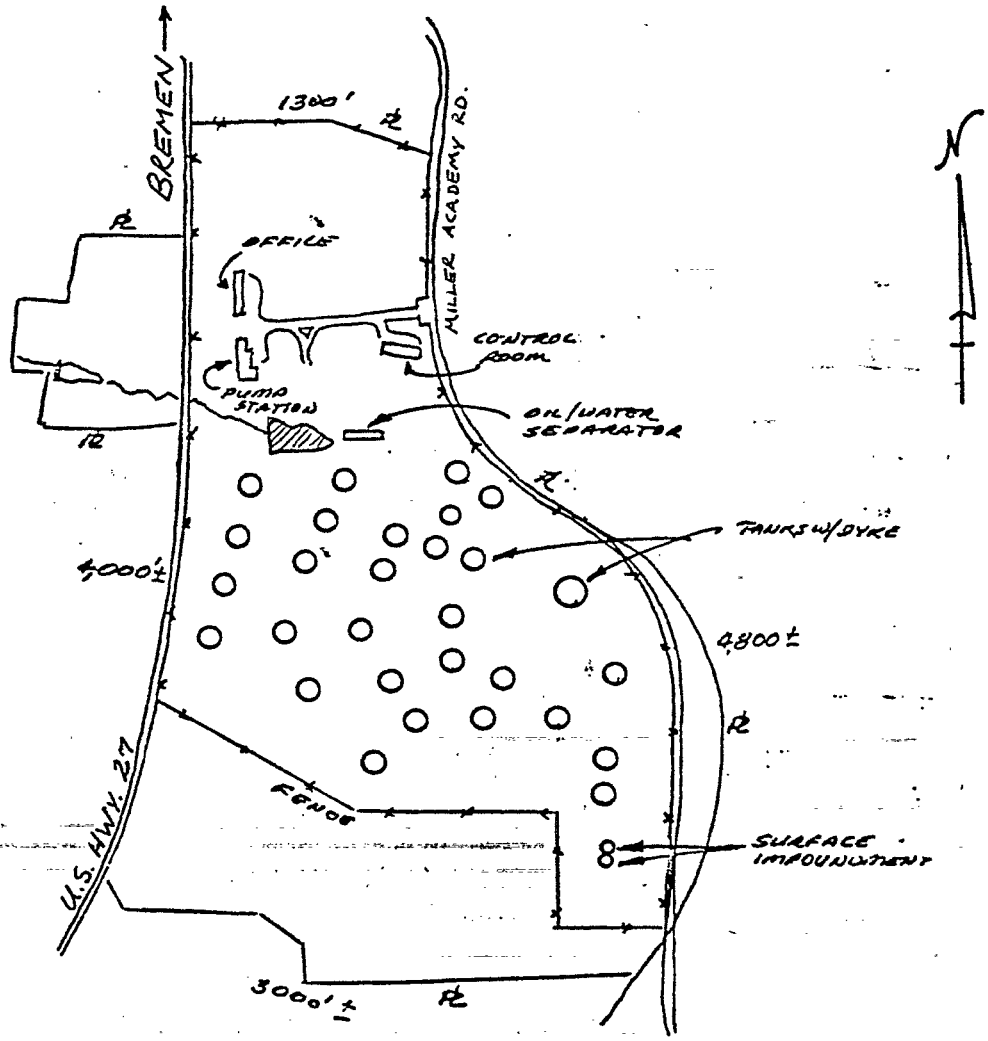
Lat: 33 45' 04.0"
Lon: 84 40' 01.9"



F-33

REF. 6

SITE SKETCH: Plantation Pipeline Company Bremen Facility



SCALE 1" = 1,000'±

OVERSIZED

DOCUMENT

M.2 - SITE MAINTENANCE FORM

ACTION: _

EPA ID : GAD042825745

SITE NAME: PLANTATION PIPELINE CO BREMEN FACILITY SOURCE: H

STREET : US HWY 27 S CONG DIST: 06

CITY : BREMEN ZIP: 30110

CNTY NAME: HARALSON CNTY CODE : 143

LATITUDE : 33/41/04.6 LONGITUDE : 085/08/02.6

LL-SOURCE: R LL-ACCURACY:

SMSA : HYDRO UNIT: 03150108

INVENTORY IND: Y REMEDIAL IND: Y REMOVAL IND: N FED FAC IND: N

NPL IND: N NPL LISTING DATE: NPL DELISTING DATE:

SITE/SPILL IDS:

RPM NAME: UNASSIGNED RPM PHONE: 404-347-2234

SITE CLASSIFICATION: SITE APPROACH:

DIOXIN TIER: REG FLD1: REG FLD2: 6

RESP TERM: PENDING ( ) NO FURTHER ACTION ( )

PENDING (_) NO FURTHER ACTION (_)

ENF DISP: NO VIABLE RESP PARTY ( ) VOLUNTARY RESPONSE ( )
ENFORCED RESPONSE ( ) COST RECOVERY ( )

SITE DESCRIPTION:

TWO-UNLINED IMPOUNDMENTS USED FOR DISPOSAL OF TANK BOTTOM SL

UDGE WHICH CONTAINS LEAD, MERCURY, HYDROCARBONS

M.2 - PROGRAM MAINTENANCE FORM

ACTION: _

SITE: PLANTATION PIPELINE CO BREMEN FACILITY

EPA ID: GAD042825745 PROGRAM CODE: H01 PROGRAM TYPE: _

PROGRAM QUALIFIER: ALIAS LINK :

PROGRAM NAME: SITE EVALUATION

DESCRIPTION:

M.2 - EVENT MAINTENANCE FORM

* ACTION: _ *

SITE: PLANTATION PIPELINE CO BREMEN FACILITY
PROGRAM: SITE EVALUATION

EPA ID: GAD042825745 PROGRAM CODE: H01 EVENT TYPE: DS1

FMS CODE: EVENT QUALIFIER : EVENT LEAD: E * _ ___ _ *

EVENT NAME: DISCOVERY STATUS: * _____ _ *

DESCRIPTION:

* _____ *
* _____ *
* _____ *
* _____ *

	ORIGINAL	CURRENT	ACTUAL			
START:		START:	START:	* __/__/__	__/__/__	__/__/__ *
COMP :		COMP :	COMP : 08/01/80	* __/__/__	__/__/__	__/__/__ *

HQ COMMENT:

* _____ *

RG COMMENT:

* _____ *

COOP AGR #	AMENDMENT #	STATUS	STATE %				
			0	* _____	_____	__	___ *

M.2 - EVENT MAINTENANCE FORM

* ACTION: _ *

SITE: PLANTATION PIPELINE CO BREMEN FACILITY
PROGRAM: SITE EVALUATION

EPA ID: GAD042825745 PROGRAM CODE: H01 EVENT TYPE: PA1

FMS CODE: EVENT QUALIFIER : EVENT LEAD: S * _ ___ _ *

EVENT NAME: PRELIMINARY ASSESSMENT STATUS: * _____ _ *

DESCRIPTION:

* _____ *
* _____ *
* _____ *
* _____ *

ORIGINAL	CURRENT	ACTUAL			
START:	START:	START: 07/22/85	* __/__/__	__/__/__	__/__/__ *
COMP :	COMP :	COMP : 07/23/85	* __/__/__	__/__/__	__/__/__ *

HQ COMMENT:

* _____ *

RG COMMENT:

* _____ *

COOP AGR #	AMENDMENT #	STATUS	STATE %				
			0	* _____	_____	__	__ *

PRELIMINARY ASSESSMENT COVER SHEET
PLANTATION PIPELINE CO. BREMEN FACILITY
GAD042825745

A. HISTORY OF SITE

The facility was built early in 1942 to assist in the movement of bulk petroleum from Baton Rouge, Louisiana to Greensboro, North Carolina. This facility serves as a pumping station and a delivery terminal. In 1976 the company began a routine maintenance program of removing a waste material from storage tanks, sump tanks and oil-water separators. The waste consists of oily water, dirt and rust scale in a liquid and solid phase. Prior to 1982, the solid phase of this waste was placed in two on-site unlined impoundments, spread in thin layers and allowed to dry. The resulting sludge was disposed of at local landfills on an irregular basis.

In 1982 this practice was determined to be in violation of the Georgia Rules for Solid Waste Management. One impoundment was closed by filling with compacted earth and the other was subsequently used for admixing the sludge with soil only. The admixing increased the percent solids content of the sludge so that it could be landfilled.

B. NATURE OF HAZARDOUS MATERIALS

The sludge was analyzed in 1981 and determined not to be hazardous as defined in Section 391-3-11-.02 of the Georgia Rules for Hazardous Waste Management. However, the sludge does contain lead (range 1.2 - 3.6 mg/L for three samples) and measureable concentrations of mercury (0.04 mg/L in one sample). The liquid phase of the waste material consists of water and various hydrocarbons and is discharged from the site under and NPDES permit.

C. DESCRIPTION OF HAZRADOUS CONDITIONS, INCIDENTS, PERMIT VIOLATIONS

In 1972 a spill and fire occurred at the facility. The amount of product lost is unknown, but most of it is thought to have been consumed in the fire. The two impoundments used for storage of the sludge from the tank cleaning operation are unlined and the sludge does contain lead and mercury. Some migration of lead, mercury or hydrocarbons into soil and groundwater may have occurred.

D. ROUTES OF CONTAMINATION

Percolation of lead, mercury or hydrocarbons from the impoundments, through the soil and into the ground water may have occurred.

E. POSSIBLE AFFECTED POPULATION AND RESOURCES

The City of Bremen lies to the north of the facility. The city is served by a municipal supply system, but shallow drinking water wells may be in use in the area.

F. RECOMMENDATIONS AND JUSTIFICATIONS

The on-site impoundments are unlined and contamination of soil and ground water may have occurred. A site inspection with a "LOW" priority is recommended for this site.

G. REFERENCE TO SUPPORTING DATA SOURCES

1. USGS Map, Bremem Quadrangle (1973), 1:24,000 scale.
2. Letter; November 5, 1981; Subject: Hazardous Waste Management, Georgia Facilities.
3. Letter; October 6, 1982; Subject: Inspection of Plantation Pipeline Co. Bremen Facility.
4. Letter; March 7, 1983; Subject: Solid Waste Disposal.
5. Letter; August 17, 1983; Solid Waste Disposal-Bremen and Austell Facilities.
6. Letter; October 27, 1983; RE: Management of Surface Impoundments Used to Store Non-Hazardous Sludge.
7. Phone Conversation; June 19, 1985; with George Jeffares, Supervising Engineer, Plantation Pipeline Co., Subject: Plantation Pipeline Bremen Facility.

CPE/mcw042

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
GA	D042825745

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Plantation Pipeline Co. Bremen Facility	U.S. Hwy. 27 South

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Bremen	GA	30326	Haralson	143	6

09 COORDINATES LATITUDE	LONGITUDE
33° 45' 04.0"	084° 40' 01.9"

10 DIRECTIONS TO SITE (Starting from nearest public road)

From the intersection of U.S. Hwy. 27 and Interstate 20 travel north 1.1 miles on U.S. 27. Facility lies on both sides of U.S. 27.

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)
Plantation Pipeline Co.	P. O. Box 18616

03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
Atlanta	GA	30326	(404) 261-2137

07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)
Same	

09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
			( )

13 TYPE OF OWNERSHIP (Check one)

☒ A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL

☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☒ A. RCRA 3001 DATE RECEIVED: 11/12/80 (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION

☒ YES ☐ NO DATE 08 24 82 (MONTH DAY YEAR)

BY (Check all that apply)

☐ A. EPA ☐ B. EPA CONTRACTOR ☒ C. STATE ☐ D. OTHER CONTRACTOR

☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: _____ (Specify)

CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)	03 YEARS OF OPERATION		
☒ A. ACTIVE ☐ B. INACTIVE ☐ C. UNKNOWN	1942 (BEGINNING YEAR)	present (ENDING YEAR)	☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Tank bottoms; heavy metals - lead, mercury; hydrocarbons.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

Possible contamination of soil and groundwater.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)

☐ A. HIGH (Inspection required promptly) ☐ B. MEDIUM (Inspection required) ☒ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
George Jeffares	Plantation Pipeline Co.	(404) 261-2137

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Charles P. Evans CPE	DNR	EPD-RAU	(404)656-7404	06/21/85 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
GA	D042825745

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES *(Check all that apply)*

- [ ] A. SOLID
- [ ] B. POWDER, FINES
- [X] C. SLUDGE
- [ ] D. OTHER _____ *(Specify)*
- [ ] E. SLURRY
- [X] F. LIQUID
- [ ] G. GAS

02 WASTE QUANTITY AT SITE
(Measures of waste quantities must be independent)

TONS _____
CUBIC YARDS unknown
NO. OF DRUMS _____

03 WASTE CHARACTERISTICS *(Check all that apply)*

- [X] A. TOXIC
- [ ] B. CORROSIVE
- [ ] C. RADIOACTIVE
- [ ] D. PERSISTENT
- [ ] E. SOLUBLE
- [ ] F. INFECTIOUS
- [ ] G. FLAMMABLE
- [ ] H. IGNITABLE
- [ ] I. HIGHLY VOLATILE
- [ ] J. EXPLOSIVE
- [ ] K. REACTIVE
- [ ] L. INCOMPATIBLE
- [ ] M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	unknown	NA	NA
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	unknown	NA	NA
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES *(See Appendix for most frequently cited CAS Numbers)*

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SLU	lead tetraethyl	78002	LF	unknown	NA
OCC	petroleum	999	LF	unknown	NA

V. FEEDSTOCKS *(See Appendix for CAS Numbers)*

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis, reports)*

Phone conversation with George Jeffares, Supervising Engineer, Plantation Pipeline Company.
GA EPD State Files - Plantation Pipeline Co., Bremen Facility GAD042825745.

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
GA	D042825745

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [X] A. GROUNDWATER CONTAMINATION — 02 [ ] OBSERVED (DATE: _____) — [X] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Impoundments where sludge was stored/treated are unlined. Possible contamination of ground water.

01 [ ] B. SURFACE WATER CONTAMINATION — 02 [ ] OBSERVED (DATE: _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 [ ] C. CONTAMINATION OF AIR — 02 [ ] OBSERVED (DATE: _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 [ ] D. FIRE/EXPLOSIVE CONDITIONS — 02 [ ] OBSERVED (DATE: _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 [ ] E. DIRECT CONTACT — 02 [ ] OBSERVED (DATE: _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 [X] F. CONTAMINATION OF SOIL — 02 [ ] OBSERVED (DATE: _____) — [X] POTENTIAL — [ ] ALLEGED
03 AREA POTENTIALLY AFFECTED: _____ (Acres) — 04 NARRATIVE DESCRIPTION

Spill and fire occurred in 1972. Impoundments where sludge was stored/treated are unlined.

01 [ ] G. DRINKING WATER CONTAMINATION — 02 [ ] OBSERVED (DATE: _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 [ ] H. WORKER EXPOSURE/INJURY — 02 [ ] OBSERVED (DATE: _____) — [ ] POTENTIAL — [ ] ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 [ ] I. POPULATION EXPOSURE/INJURY — 02 [ ] OBSERVED (DATE: _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
GA	D042825745

II. HAZARDOUS CONDITIONS AND INCIDENTS *(Continued)*

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION *(Include name(s) of species)*

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES *(Spills runoff standing liquids, leaking drums)* — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

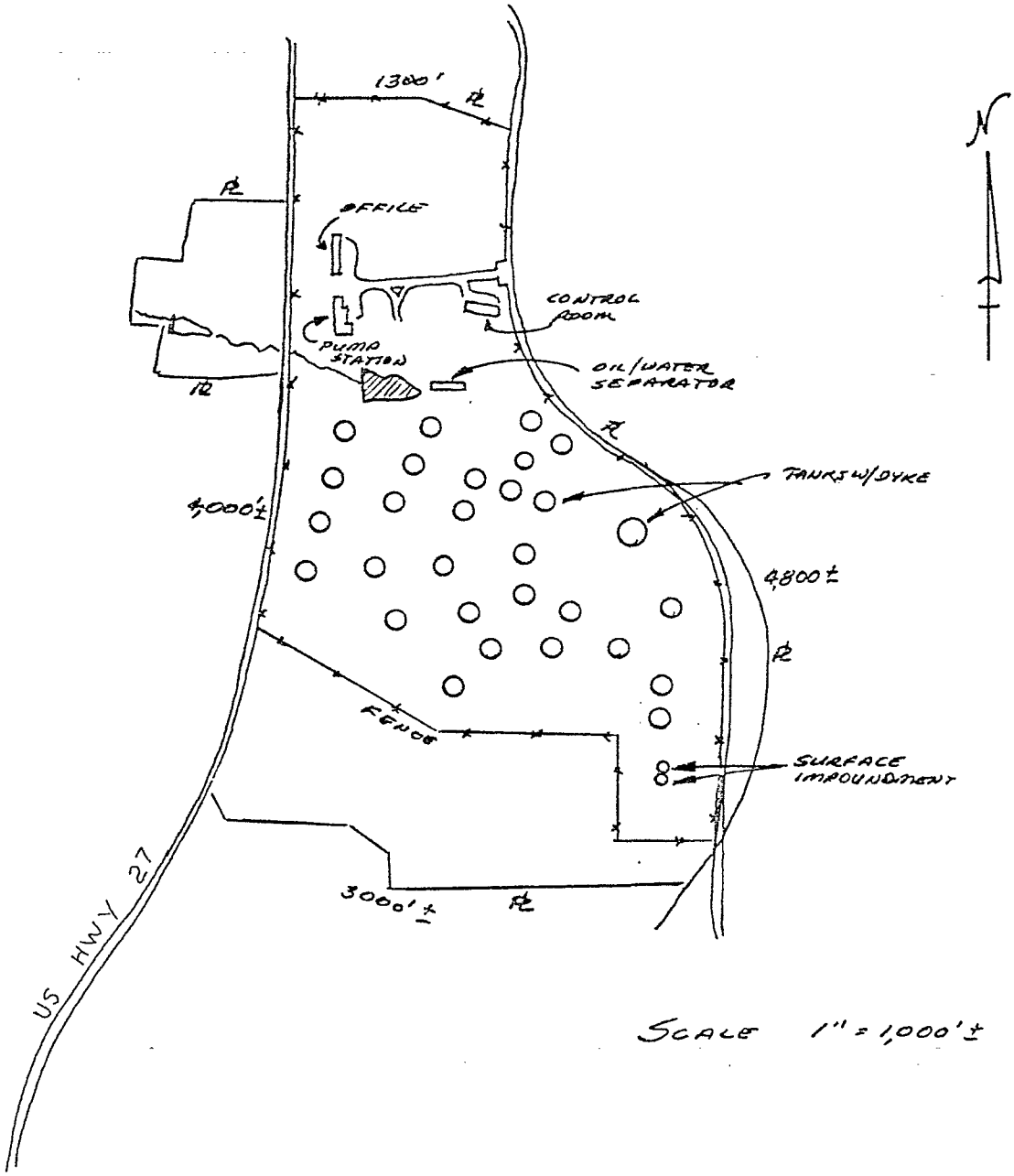
III. TOTAL POPULATION POTENTIALLY AFFECTED: 0

IV. COMMENTS

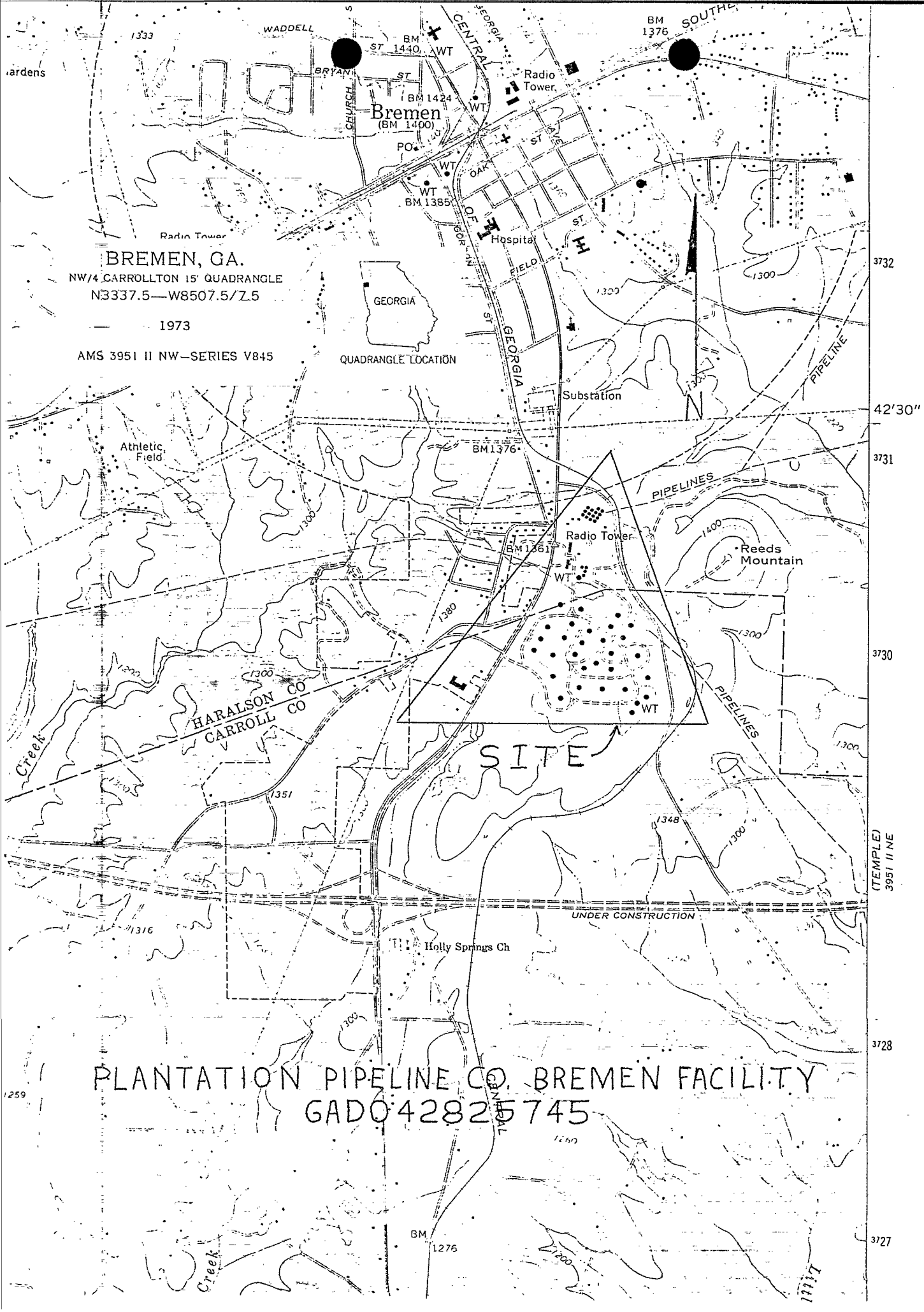
None

V. SOURCES OF INFORMATION *(Cite specific references, e g., state files, sample analysis, reports)*

GA EPD File Plantation Pipeline Co., Bremen Facility GAD042825745.



PLANTATION PIPELINE CO. BREMEN FACILITY
GAD042825745



PLANTATION PIPELINE CO. BREMEN FACILITY

GAD042825745

PLANTATION PIPE LINE COMPANY
P. O. BOX 18616
ATLANTA, GEORGIA 30326

ENGINEERING DEPARTMENT
F. L. BRITTAIN, JR.
MANAGER

November 5, 1981

5.12.4
Hazardous Waste Management -
Georgia Facilities

Mr. John D. Taylor, Jr.
Program Manager
Industrial & Hazardous Waste
Management Program
Environmental Protection Division
Department of Natural Resources
270 Washington Street, S.W.
Atlanta, GA 30334

RECEIVED
NOV 6 1981
ENVIRONMENTAL PROTECTION DIVISION
LAND PROTECTION BRANCH

Dear Mr. Taylor:

This is in regard to the above subject which we discussed by telephone October 22, 1981, and at which time you suggested I write a request that Plantation be removed from the roster of hazardous waste generators and disposers. For your record, the following is a summary of Plantation's involvement in the hazardous waste program.

Plantation Pipe Line Company operates a refined liquid petroleum products pipeline in eight southeastern states, including Georgia, and in the course of its operation, generates on an irregular basis a waste sludge consisting of oily water, dirt and rust scale when storage tanks, sump tanks and oil/water separators are cleaned. At Doraville, this material has been disposed of in public landfills by a contract tank cleaner. At our Atlanta Airport facilities, there is little sludge waste but some spent filter cartridges which are carried to our Austell facility and combined with that location's used cartridges and disposed of by contract in a public landfill. The tank bottom sludge at Austell and at Bremen for some years has been placed in a surface impoundment at each location. At lengthy intervals, this material has been removed by contract to a public landfill.

When the RCRA regulations were published in May, 1980, due to the short lead time, Plantation elected to notify the EPA that we were hazardous waste generators at Doraville and the Atlanta Airport and generators and disposers at Austell and Bremen even though the material had not been analyzed to determine that it was hazardous according to EPA criteria.

It must be kept in mind that this waste is not a daily occurrence, but only generated when tanks or other facilities are cleaned. Some tanks may go five years without cleaning, and we may operate several months without any tank being cleaned. During 1981, however, we have begun sampling and analyzing these

cleaning wastes when available, and have determined that the material is neither ignitable, corrosive, reactive or toxic according to the EPA test methods and procedures, nor is the material specifically listed by EPA as a hazardous waste.

In light of the above findings, based on the sample analyses attached, we are requesting that Plantation's following facilities in Georgia be removed from the roster of hazardous waste generators and disposers. You will note that we have analyses of samples from three tanks at Bremen but none at Austell. This is due to the fact that we have not cleaned a tank at Austell since we began the testing program. However, all of Austell's tanks are in fuel service and should be similar to the Bremen fuel tank 37.

Atlanta Airport Facility - Generator - EPA ID No. GA D991275736
Doraville Facility - Generator - EPA ID No. GA D991275777
Austell Facility - Generator and Disposer - EPA ID No. GA D991276288
Bremen Facility - Generator and Disposer - EPA ID No. GA D042825745 (Temp.)

You had suggested in our telephone conversation that we might want to remain in the program and retain our EPA ID numbers even though we are not generating a waste which is hazardous. I see no objection to this, if it conforms with the procedures of the program.

I know you can appreciate our wish for an early answer to this request since the deadline for establishing a groundwater monitoring program at disposal sites such as Austell and Bremen is November 19, 1981, according to your letter of October 20. Should you or your staff have questions or need additional information on this request, please contact me in Atlanta at 404/261-2137.

Very truly yours,

G. M. Jeffares
Supervising Engineer

GMJ:tcp
Attachments (3)

LAW & COMPANY
CONSULTING AND ANALYTICAL CHEMISTS
P. O. BOX 1958
ATLANTA, GA. 30301

Chemical Report

ATLANTA, GA. 9/24/81

41882

Number 892730 Sample of Received 9/16

For Mr. Wayne Harper
Plantation Pipe Line Co.
Room #516
3390 Peachtree Rd. N.E.
Atlanta, GA 30326

Marks

Description Fuel Sludge ~~FROM~~ BRUNSWICK, Tk #37, 9/11 (FUEL SERVICE)

Flash Point (Pensky Martens) ..... will not flash
Corrosion Rate on Steel @ 55°C (NACE Standard TM-01-69) ..... *0.1 mm per year
pH 6.4

The material extracted and analyzed using the procedure contained in the Federal Register dated Monday, May 10, 1980, Vol. 45, No. 98. The analysis of the extraction procedure is as follows:

Arsenic (As) (mg/l)	*0.02
Barium (Ba) (mg/l)	*1
Cadmium (Cd) (mg/l)	*0.01
Chromium (Cr) (mg/l)	*0.04
Lead (Pb) (mg/l)	3.6
Mercury (Hg) (mg/l)	*0.001
Selenium (Se) (mg/l)	*0.01
Silver (Ag) (mg/l)	*0.04

* None found if present less than

*****

According to the methods and procedures set out by the Environmental Protection Agency in the Federal Register dated Monday, May 19, 1980, Vol. 45, No. 98:

This material is not considered ignitable.
This material is not considered corrosive.
This material is not considered reactive.
This material is not considered toxic according to the extraction procedure.

Respectfully submitted,
LAW & COMPANY

BY William W. McGee

5 17250 ej

116

9/24

LAW & COMPANY
CONSULTING AND ANALYTICAL CHEMISTS
P. O. BOX 1858
ATLANTA, GA. 30301

Chemical Report

ATLANTA, GA. 8/13/81

41882
Number 892532 Sample of Received 7/30

For Mr. Wayne Harper
Plantation Pipe Line Co.
Room #516
3390 Peachtree Rd,N.E.
Marks Atlantan GA 30326

Description Hazardous Waste Sample, 7/29, (3:30 P.M.) SLUDGE FROM
Breman Tank Farm , PO #43863 P TANK #42 (GASOLINE SERVICE)

Flash Point (Closed Cup) ..... over 200°F
Corrosion Rate on Steel @ 55°C (NACE Standard TM-01-69) ..... *0.1 mm/year
pH 6.8

The material extracted and analyzed using the procedure contained in the Federal Register dated Monday, May 10, 1980, Vol. 45, No. 98.
The analysis of the extraction procedure is as follows:

Arsenic (As) (mg/l)	*0.02
Barium (Ba) (mg/l)	*1
Cadmium (Cd) (mg/l)	*0.01
Chromium (Cr) (mg/l)	*0.04
Lead (Pb) (mg/l)	1.2
Mercury (Hg) (mg/l)	0.04
Selenium (Se) (mg/l)	*0.01
Silver (Ag) (mg/l)	*0.04

* None found if present less than

According to the methods and procedures set out by the Environmental Protection Agency in the Federal Register dated Monday, May 19, 1980, Vol. 45, No. 98:

This material is not considered ignitable.
This material is not considered corrosive.
This material is not considered reactive.
This material is not considered toxic according to the extraction procedure.

Respectfully submitted,
LAW & COMPANY

BY W. Allen W. McRee

5 17250 ej

116

LAW & COMPANY

CONSULTING AND ANALYTICAL CHEMISTS

P. O. BOX 1838

ATLANTA, GA. 30301

Chemical Report

ATLANTA, GA. 8/13/81

41882

Number 892533 Sample of Received 7/30

For Mr .Wayne Harper
Plantation Pipe Line Co.
Room #516
3390 Peachtree Rd., N.E.

Marks Atlanta, GA 30326

Description Hazardous Waste Sample, 7/30, 8:30 a.m. SLUDGE FROM
Bremen Tank Farm, PO #43863 P TANK #67 (GASOLINE SERVICE)

Flash Point (Closed Cup) .... over 200°F
Corrosion Rate on Steel @ 55°C (NACE Standard TM-01-69) ....*0.1 mm/year
pH 7.1

The material extracted and analyzed using the procedure contained in the Federal Register dated Monday, May 10, 1980, Vol. 45, No. 98.
The analysis of the extraction procedure is as follows:

Arsenic (As) (mg/l) *0.02
Barium (Ba) (mg/l) *1
Cadmium (Cd) (mg/l) *0.01
Chromium (Cr) (mg/l) *0.04
Lead (Pb) (mg/l) 1.5
Mercury (Hg) (mg/l) *0.001
Selenium (Se) (mg/l) *0.01
Silver (Ag) (mg/l) *0.04

* None found if present less than

According to the methods and procedures set out by the Environmental Protection Agency in the Federal Register dated Monday, May 19, 1980, Vol. 45, No. 98:

This material is not considered ignitable.
This material is not considered corrosive.
This material is not considered reactive.
This material is not considered toxic according to the extraction procedure.

Respectfully submitted,

LAW & COMPANY

BY William W. McGee

5 17250 eg

116

JOE D. TANNER
Commissioner

J. LEONARD LEDBETTER
Division Director

Department of Natural Resources

ENVIRONMENTAL PROTECTION DIVISION
270 WASHINGTON STREET, S.W.
ATLANTA, GEORGIA 30334

File

October 6, 1982

Mr. G. M. Jeffares
Supervising Engineer
Plantation Pipeline
P. O. Box 18616
Atlanta, Georgia 30326

Dear Mr. Jeffares:

This will confirm my inspection of the above subject facility on August 24, 1982 to determine if the existing disposal practice conducted at the Bremen facility is in compliance with the Georgia Rules and Regulations for Solid Waste Management.

In accordance with the Solid Waste Management Act, 391-3-4-.02, Solid Waste Handling Permits, Amended, (1) Permits Required: No person shall engage in solid waste handling or construct or operate a disposal facility or disposal site without first obtaining a permit from the Director authorizing such activity. In addition, 391-3-4-.04 General, Amended, (4) Prohibited Acts (c) Open Dump, states that, no solid waste may be disposed of by any person in an open dump, nor may any person cause, suffer, allow or permit open dumping on his property.

In regard to the aforementioned, Plantation pipeline is required to stop the disposal practices at the Bremen facility, seek authorization from the County to utilize the County landfill facilities and close out the two surface impoundments by capping over the existing wastes with clean compacted earth with the application of a suitable vegetative cover for effective erosion control.

If you require the need to retain one of the two impoundments for proper admixing of some non-hazardous sludges (a consistency of 35% solids by weight must be achieved for landfilling) please submit a proposal delineating the following:

1. Admixture material utilized and source,
2. Estimated quantity of sludges generated weekly/monthly requiring admixing,
3. Disposal site and rate of disposal (volume per week, month),
4. Method of containerization and transport.

Upon receipt and review of the above information, this Division will notify you of its approval and request additional information if required. In the interim, if you have any comments or questions relative to your disposal plans, please contact me.

Sincerely,

Robert I. Rose
Environmental Specialist
Industrial & Hazardous Waste
Management Program

RIR:bpk:1473C

cc: John Taylor
File: Plantation Pipeline/Bremen (R)

HARALSON COUNTY LANDFILL

P. O. Box 488

BUCHANAN, GEORGIA 30113

March 7, 1983

Mr. Mike Johnson
Product Technologist
Plantation Pipe Line Company
P. O. Box 665
Bremen, Ga 30110

IN RE: 5.12.11 Solid Waste
Disposal

Dear Mr. Johnson:

Based on the clarification letter from the Georgia Department of Natural Resources stating that the material Plantation Pipe Line desires to dispose of is non-hazardous, the Haralson County Sanitary Landfill Authority authorizes you to utilize this site. The site is in full compliance with all state requirements and has the required permit.

As stated in the DNR letter a consistency of 35% solids by weight must be achieved for landfilling. To meet this requirement liquids (sludge) is bought to the landfill and poured into a large pit. A bulldozer then pushes fill dirt into the pit and mixed by the bulldozer. It is then spread onto the working slope of the garbage and used as cover. This method has DNR approval and currently used to process Colt Industries (Trent Tube) of Carrollton, Georgias sludge. With proper coordination and dry weather, the landfill can handle 8,000 gallons dailey.

A service charge of fifteen cents (.15¢) per gallon is required due to the special handling. If this is to be a continuous requirement, we would be happy to negotiate an annual contract with reduced rates.

If there are any questions, please do not hesitate to contact Mike Ellis at 646-5206.

$35
$25/load

Yours very truly,

Evelyn Wade, Chairperson
Haralson County Landfill

PLANTATION PIPE LINE COMPANY
P. O. BOX 18616
ATLANTA, GEORGIA 30326

RECEIVED
AUG 23 1983
ENVIRONMENTAL PROTECTION DIVISION
LAND PROTECTION BRANCH

ENGINEERING DEPARTMENT
F. L. BRITTAIN, JR
MANAGER

August 17, 1983

5. 12. 4
Solid Waste Disposal -
Bremen and Austell Facilities

Dr. Albert K. Langley, Jr.
Environmental Specialist
Industrial & Hazardous Waste
Management Program
Environmental Protection Division
Department of Natural Resources
270 Washington Street, S. W.
Atlanta, GA 30332

Dear Dr. Langley:

In regard to Mr. Robert I. Rose's August 24, 1982, inspection of our Bremen facility and your February 10, 1983 inspection of our Austell facility and your letter of February 22, 1983, to Mr. M. S. Johnson, we are submitting the following plan of compliance for both locations.

1. Have ceased disposal practices at both locations.

2. Have received attached authorization from Haralson County to utilize the County landfill facilities.

3. Will close out one of the surface impoundments at Bremen by capping over the existing wastes with clean compacted earth and a suitable vegetative cover for erosion control.

4. Our normal handling procedure will be to haul the tank cleaning waste as it comes from the tank by contractor to the County landfill for admixing with dirt by the County.

5. Retention of one impoundment at both locations for proper admixing of nonhazardous sludges. These two admixing pits will be retained for use at times when tanks are cleaned but conditions exist at the County landfill which preclude them from accepting the waste.

6. Proposal for admixing wastes on site.

   a. Local dirt supplied by Contractor from his property in Haralson County will be utilized for admixing at Bremen and Austell.

b. Estimated yearly average quantity of sludges generated which require admixing on site:

Bremen - 6,000* gallons per month
Austell - 1,500* gallons per month

c. Estimate that 7,500* gallons per month will be disposed of at Haralson County landfill.

d. Admixed waste will be transported to landfill in a dump truck lined with a polyethylene material.

*These quantities are for the worse possible case, which would occur if County will not accept any liquid waste for admixing at landfill. The best case (when County accepts all liquid wastes) would reduce these figures to zero.

We trust that this information is satisfactory for our plans for waste disposal and await your approval. Should there be questions or should you desire additional information, I can be reached in Atlanta by telephone at 261-2137.

Very truly yours,

G. M. Jeffares
Supervising Engineer

GMJ:rd
Attachment

Department of Natural Resources
ENVIRONMENTAL PROTECTION DIVISION
270 WASHINGTON STREET, S W
ATLANTA, GEORGIA 30334

JOE D. TANNER
Commissioner

J. LEONARD LEDBETTER
Division Director

October 27, 1983

FILE COPY

Mr. George Jeffares
Supervising Engineer
Plantation Pipeline Company
P. O. Box 18615
Atlanta, Georgia 30326

RE: Management Of Surface Impoundments Used To Store Non-Hazardous Sludge

Dear Mr. Jeffares:

Your letter of August 17, 1983 regarding management of non-hazardous sludges at the Austell & Bremen facilities has been reviewed. Your proposed plan of eliminating storage of the sludges in surface impoundments and disposing of the sludges at the Haralson County landfill is acceptable. Arrangements have been made by you with the county to admix the sludges to a proper solid content at the landfill. You have requested retaining a single impoundment for use as an admixing pit at each facility, to be used when conditions do not allow admixing at the landfill. This is also acceptable.

Please be aware that at no time may hazardous wastes be disposed of in this manner.

If you have any further questions, please contact Bert Langley at 404/656-7802.

Sincerely,

Bill Mundy for

Jennifer R. Kaduck, Unit Coordinator
Facilities Compliance Unit
Industrial & Hazardous Waste
Management Program

JRK:blh:0779M

File: Plantation Pipeline Austell
Plantation Pipeline Bremen

AN AFFIRMATIVE ACTION/EQUAL EMPLOYMENT OPPORTUNITY EMPLOYER

PRELIMINARY ASSESSMENT
TELEPHONE CONVERSATION RECORD

Site Name: PLANTATION PIPELINE CO BREMEN FACILITY I.D.# GAD 042 825 745

Location Address: US HWY 27, BREMEN GA.

Phone: (___)___ - ____.

Contact: GEORGE JEFFARES Title: SUPERVISING ENGINEER

Address: PO BOX 18616

Phone: (404) 261 - 2137.

Authority: Section 3012 of CERCLA, Comprehensive Environmental Response, Compensation and Liability Act.

Facility has notified EPA via - RCRA 3001 site is in HWDMS
CERCLA 103c site is in NOTIS

Need Information concerning waste generation and disposal prior to Nov. 19, 1980.

How long has facility been in operation? SINCE 1942

What kind of wastes were generated and how much?

SLUDGE FROM TANK CLEANING OPERATIONS, UNKNOWN QUANTITY.
TANK CLEANING OPERATIONS BEGIN IN 1976.

Was it disposed on site and where?

YES TWO IMPOUNDMENTS

Was it transported offsite and where?

YES HARALSON COUNTY LANDFILL

Was it treated and how?

NO

Have there been any past spills? Describe.

SOME PRODUCT SPILLAGE IN 1977 ASSOCIATED WITH A FIRE AT THE SITE, MOST OF PRODUCT BURNED

Date of call: 6/19/85 Time: 11:10 AM

(SEE BACK)

The TWO IMPOUNDMENTS ARE UNLINED. EACH PIT ~~will hold~~ IS 30 FT IN DIAMETER & AVERAGES 5 FEET IN DEPTH 3500 FT.^{3}

THE FILLING of SLUDGE VARIES FROM YEAR TO YEAR EACH TANK IS ON A FIVE YEAR CLEANING CYCLE.

1 PIT HAS BEEN CLOSED. THE OTHER IS RETAINED FOR ADMIXING THE SLUDGE WITH ENOUGH DIRT TO SOLIDIFY IT SO IT CAN BE LANDFILLED.